

Address

Report No.:1812C40000812501 FCC ID: 2AOV6-BLS-6-2388

FCC Test Report

Applicant : Shenzhen Minsuo Industrial Co.,Ltd.

12th floor, Block B, Tengyao Building, No. 268

: Gushu 2nd road, Xixiang Town, Bao'an,

Shenzhen, Guangdong, China

Product Name : 15 INCHES LIGHT UP BLUETOOTH SOUNDBAR

Report Date : Sept. 04, 2024

Shenzhen Anbotek







Report No.:1812C40000812501 FCC ID: 2AOV6-BLS-6-2388

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| | | 160. | 0.77 | | | 5/r | Aupotek | Pupole | rek V | , abolek | 33 |
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TEST REPORT

Applicant : Shenzhen Minsuo Industrial Co.,Ltd.

Manufacturer : Shenzhen Minsuo Industrial Co., Ltd.

Product Name : 15 INCHES LIGHT UP BLUETOOTH SOUNDBAR

Model No. : SP-506, BLS-6/2388

Trade Mark : N/A

Rating(s) : Input: 5V= 1A(with DC 3.7 V, 1200mAh 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: | Jul. 26, 2024 |
|-------------------------------|---------------------------------|
| And Andor | And lek Auguster And lek upotok |
| Date of Test: | Jul. 26, 2024 to Sept. 04, 2024 |
| Potek Viposek Viposek V | Tu Tu Hong |
| Prepared By: | Auposte, Yung Jest Vupotes Aupo |
| Wipolek Vupoje Verk Vupojek | (TuTu Hong) |
| Anbotek Anbotek Anbotek | Edward pan |
| Approved & Authorized Signer: | TOK TOPOLOK WUPO, IN "OLOK WUPO |
| LOTES AND | VEdward Don |





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Revision History

| polek | Anbotek Anbotek | Revision History | atek Aupotek Aupotek |
|--------|---------------------|---------------------------|----------------------|
| Aupore | Report Version | Description | Issued Date |
| Anb. | nbotek Ar ROO Arbo | Original Issue. | Sept. 04, 2024 |
| iek | Aupotek Aupoter Aup | Motek Aupotek Aupo | Auporek Aupore A |
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1. General Information

1.1. Client Information

| - NO. | _ r | |
|--------------|-----|---|
| Applicant | : | Shenzhen Minsuo Industrial Co.,Ltd. |
| Address | : | 12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road, Xixiang Town, Bao'an, Shenzhen, Guangdong, China |
| Manufacturer | : | Shenzhen Minsuo Industrial Co.,Ltd. |
| Address | : | 12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road, Xixiang Town, Bao'an, Shenzhen, Guangdong, China |
| Factory | : | Shenzhen Minsuo Industrial Co.,Ltd. |
| Address | : | 12th floor, Block B, Tengyao Building, No. 268 Gushu 2nd road, Xixiang Town, Bao'an, Shenzhen, Guangdong, China |

1.2. Description of Device (EUT)

| 200 | 1.0 | "OLO A". "SEE AND "SE |
|------------------------|-----|--|
| Product Name | : | 15 INCHES LIGHT UP BLUETOOTH SOUNDBAR |
| Model No. | : | SP-506, BLS-6/2388 (Note: All samples are the same except the model number, so we prepare "SP-506" for test only.) |
| Trade Mark | : | N/A rek Vipotek Vipotek Vipotek Vi |
| Test Power Supply | : | AC 120V, 60Hz for Adapter/DC 3.7V battery inside |
| Test Sample No. | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) |
| Adapter | : | MA Aupolek Vupo sek Vupolek Vupole Vupolek |
| RF Specification | | |
| Operation Frequency | : | 2402MHz to 2480MHz |
| Number of Channel | : | 79 Anbotek Anbote Ant botek Anbotek Anbotek |
| Modulation Type | : | GFSK, π/4 DQPSK, 8DPSK |
| Antenna Type | : | PCB Antenna |
| Antenna Gain(Peak) | : | -0.58dBi Anbotek Anbotek Anbotek Anbotek |

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.









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Anbotek 1.3. Auxiliary Equipment Used During Test

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| upolek | 1.3. Auxiliary Equipr | nent Used During Test | otek Anbotek An | Potek Vipotek Vi |
|---------|-----------------------|-----------------------|-----------------|-------------------|
| Anboick | Title | Manufacturer | Model No. | Serial No. |
| Anb | Xiaomi 33W adapter | Xiaomi | MDY-11-EX | SA62212LA04358J |
| | Yupoter, Yup | Auporek Aupo | Anborek Anbore | ok abotek Anbotek |

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1.4. Operation channel list

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Operation Band:

| [| Operation Band: | | Vic. VI | , F | 1ek | PUD. | You | 20010 |
|----------------|---------------------------------------|-------------------------------------|----------------------|---------------------|-----------------------|-------------------------|---------------------|-------------------------|
| Aupor | Channel Frequency (MHz) | | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| P | 0 O | 2402 | 20 | 2422 | 40,botek | 2442 | 60 | o ^{vek} 2462 M |
| | Anboten | 2403 | 210018 | 2423 | k 41 Anb | 2443 Andre | 61 | 2463 |
| <i>*</i> | 1200 tel | 2404 | 22 Anbol | 2424 | otek 42 | 2444 | 62 | 2464 |
| oiek | 3 Vupor | 2405 | otek 23 A | 2425 | 43 | 2445 | Anb 63 | 2465 |
| Anbo | rek 4 An | 2406 | 24 | 2426 | And 44 tek | 2446 | 64 | 2466 |
| V | nbolek5 | 2407 | 25 | 2427 | 45 | 2447,50 tel | 65 Anbo. | 2467 |
| ľ | 6ek | 2408 | 26 otek | 2428 | 46 | 2448 _{nb} | 10 Pu | 2468 |
| N _E | 7 potek | 2409 | 27 | 16k 2429 Anbo | 47 And | 2449 | nbote67 | 2469 |
| 45 | 8 360 | 2410 _A nb ^{ott} | 28 | 2430 | no ^{tek} 48 | 2450 | 68 | 2470 |
| potel | 9 | 100 2411 AN | o ^{oten} 29 | 2431 | 49 | 2451 | 69,01ek | 2471 |
| VUP | 10 | 2412 | Mood 30 | 2432 | 50° 10' 1 | 2452 | 70 | 2472 _M |
| | Anbort 11 | 2413 | A31 10 K | 2433 | 51 Anbore | 2453 | 71 | 2473 |
| | №12 | 2414 | 32, nb o 161 | 2434 | 52 m | o ^{tek} 2454 M | 72 | 2474 |
| ek | 13.6000 | 2415 | ek 33 Anb | 2435 And | 53 | 2455 | Anbo 73 | 2475 |
| pote | 14 Anbc | 2416 | hove 34 | 2436 | 54 | 2456 | N74 | 2476 |
| | otek 15 | 2417 A | 35 | 2437 | 55 Tek | 2457 | 75 ¹⁰⁰¹⁰ | 2477 |
| VU | 16 | 2418 | Anii 36 | 2438 | 56 | 2458 | 76 Anbe | 2478 |
| | 17, ek | 2419 | 37 | 2439 | 57 Anbo | 2459 | ootek 77 p | 2479 |
| 40. | 18 010 | 2420 | 38 ^{Anb} | 2440 _{Mil} | o ^{tek} 58 N | 2460 | 78 | 2480 |
| lek. | 19 | otek 2421 Anb | 39 An | 2441 | 59 | 2461 | W. Dolek | Acholek |
| "Upor | · · · · · · · · · · · · · · · · · · · | Anbotek P | 'upolek | Anborek | Aupotek | Vuporer | Anborek | Aupo |
| | Pole. | Vun. | , olek | Aupo | 191 | apolo | b. | No. |

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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 Anbotek Anbotek |
| Occupied Bandwidth | 925Hz |
| Conducted Output Power | 0.76dB otek Anbotek Anbo |
| Conducted Spurious Emission | 1.24dB Anborek Anbo |
| Radiated spurious emissions (above 1GHz) | 1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB |
| Radiated emissions (Below 30MHz) | 3,53dB And Andotek Andotek |
| 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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Anbolek 1.7. Test Summary

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| Test Items | Test Modes | Status |
|---|-----------------|----------|
| Antenna requirement | Aupole Au hotek | Rup |
| Conducted Emission at AC power line | Mode1,2,3 | P |
| Occupied Bandwidth | Mode1,2,3 | potek P |
| Maximum Conducted Output Power | Mode1,2,3 | P |
| Channel Separation | Mode4,5,6 | Pre |
| Number of Hopping Frequencies | Mode4,5,6 | P |
| Dwell Time Anbotek Anbotek Anbotek | 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 | Anbole P |
| Emissions in frequency bands (above 1GHz) | Mode1,2,3 | APO' |

Note:

P: Pass

N: N/A, not applicable

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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.

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.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

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



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Report No.:1812C40000812501 FCC ID: 2AOV6-BLS-6-2388

1.10. Test Equipment List

| Aupolek | Cond | ucted Emission at A | C power line | An apolek | Aupoten | k Pup | 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 |
| otek ek | Anbo | Three Phase V- type Artificial Power Network | CYBERTEK | EM5040DT | E215040D T001 | 2024-01-17 | 2025-01-16 |
| Anboick | 3 | Software Name EZ-EMC | Farad Technology | ANB-03A | N/A orek | PApolo | Anborek |
| Anb | 1 ^c 4 | EMI Test Receiver | Rohde & Schwarz | ESPI3 | 100926 | 2023-10-12 | 2024-10-11 |

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Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

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Anbotek

Emissions in non-restricted frequency bands

| em Equipment Manufacturer | | urer Model No. Serial | | Last Cal. | Cal.Due Date | |
|---|--|---|--|---|--|--|
| Constant Temperature Humidity Chamber | ZHONGJIAN | ZJ- KHWS80B | pote ^N N/A | 2023-10-16 | 2024-10-15 | |
| DC Power Supply | IVYTECH | IV3605 | 1804D360 510 | 2023-10-20 | 2024-10-19 | |
| Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 102150 | 2024-05-06 | 2025-05-05 | |
| MXA Spectrum Analysis | KEYSIGHT | N9020A | MY505318 23 | 2024-02-22 | 2025-02-21 | |
| Oscilloscope | Tektronix | MDO3012 | C020298 | 2023-10-12 | 2024-10-11 | |
| MXG RF Vector Signal Generator | Agilent | N5182A | MY474206 47 | 2024-02-04 | 2025-02-03 | |
| | Constant Temperature Humidity Chamber DC Power Supply Spectrum Analyzer MXA Spectrum Analysis Oscilloscope MXG RF Vector | Constant Temperature Humidity Chamber DC Power Supply Spectrum Analyzer MXA Spectrum Analysis Oscilloscope MXG RF Vector Temperature ZHONGJIAN IVYTECH Rohde & Schwarz KEYSIGHT Agilent | Constant Temperature Humidity Chamber DC Power Supply Spectrum Analyzer MXA Spectrum Analysis Oscilloscope MXG RF Vector Temperature ZHONGJIAN IV3605 KHWS80B IVYTECH IV3605 FSV40-N KEYSIGHT N9020A N9020A ND03012 | Constant Temperature Humidity Chamber ZHONGJIAN ZJ-KHWS80B N/A DC Power Supply IVYTECH IV3605 1804D360 510 Spectrum Analyzer Rohde & Schwarz FSV40-N 102150 MXA Spectrum Analysis KEYSIGHT N9020A MY505318 23 Oscilloscope Tektronix MDO3012 C020298 MXG RF Vector Agilent NI5182A MY474206 | Constant Temperature Humidity Chamber ZHONGJIAN ZJ-KHWS80B N/A 2023-10-16 DC Power Supply IVYTECH IV3605 1804D360 510 2023-10-20 Spectrum Analyzer Rohde & Schwarz FSV40-N 102150 2024-05-06 MXA Spectrum Analysis KEYSIGHT N9020A MY505318 2024-02-22 2024-02-22 Oscilloscope Tektronix MDO3012 C020298 2023-10-12 MXG RF Vector Agilent N5182A MY474206 2024-02-04 | |



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Report No.:1812C40000812501 FCC ID: 2AOV6-BLS-6-2388

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|---------|---|------------------|----------------------|-----------------|------------|--------------|
| Ann | otek Aupotek | Vupo, | upotek A | nbote | V. Potek | Anborer A |
| | edge emissions (Ra sions in frequency ba | | Aupolek | Aupole | Vupofek | Aupolek |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
| 1 | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | 2024-01-23 | 2025-01-22 |
| 2 | 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 | Alpotek | Vupor Votek |
|) te 5 | Horn Antenna | A-INFO | LB-180400- KF | J21106062 8 | 2023-10-12 | 2024-10-11 |
| Anb6rek | Spectrum Analyzer | Rohde & Schwarz | FSV40-N | 102150 | 2024-05-06 | 2025-05-05 |
| Kupa | Amplifier | Talent Microwave | TLLA18G40 G-50-30 | 23022802 | 2024-05-07 | 2025-05-06 |

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal.Due Date |
|------------------|-----------------------------|-----------------|----------------------|------------|---------------|--------------|
| 1 | EMI Test Receiver | Rohde & Schwarz | ESR26 | 101481 | 2024-01-23 | 2025-01-22 |
| 2 | Pre-amplifier | SONOMA | 310N M | 186860 | 2024-01-17 | 2025-01-16 |
| 3 ^{Anb} | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | Anb 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 ^{botet} | N/A | otek / Aupote | I Ando |

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Report No.:1812C40000812501 FCC ID: 2AOV6-BLS-6-2388

2. Antenna requirement

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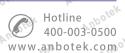
Test Requirement:

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 -0.58dBi . It complies with the standard requirement.

Shenzhen Anbotek Compliance Laboratory Limited



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3. Conducted Emission at AC power line

| Otek Vupotek | Refer to 47 CFR 15.207(a), Except section, for an intentional radiator to public utility (AC) power line, the radiator to public utility (AC) power line, the radiator to the | that is designed to be con adio frequency voltage tha | nected to the |
|-------------------|---|--|--------------------|
| Test Requirement: | back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN). | exceed the limits in the fo | ollowing table, as |
| Vupo | Frequency of emission (MHz) | Conducted limit (dBµV) | ek abolek |
| k Aupole, Aug | rek spokek Aupo | Quasi-peak | Average |
| - dek | 0.15-0.5 | 66 to 56* | 56 to 46* |
| Test Limit: | 0.5-5 K | .56 h | 46 |
| ick upolek | 5-30 hotek And | 60 | 50 |
| Anbout K hotek | *Decreases with the logarithm of the | ne frequency. | botek |
| Test Method: | ANSI C63.10-2020 section 6.2 | polek Aupore | V. Olek |
| Procedure: | Refer to ANSI C63.10-2020 section line conducted emissions from unli | | od for ac power- |

3.1. EUT Operation

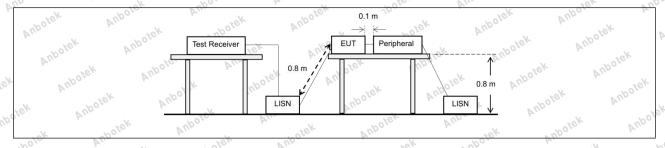
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| LON . AV | | V | W.O., | 100 | | 1/1. | |
|-----------------|----------------------|--|--------------------------------|-----------|--------|-----------------|-----|
| Operating Envir | onment: | Aupolen | Yun Jek | Vupotek | Anbo | bolek | Anb |
| 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 | 2/2 |

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3.2. Test Setup



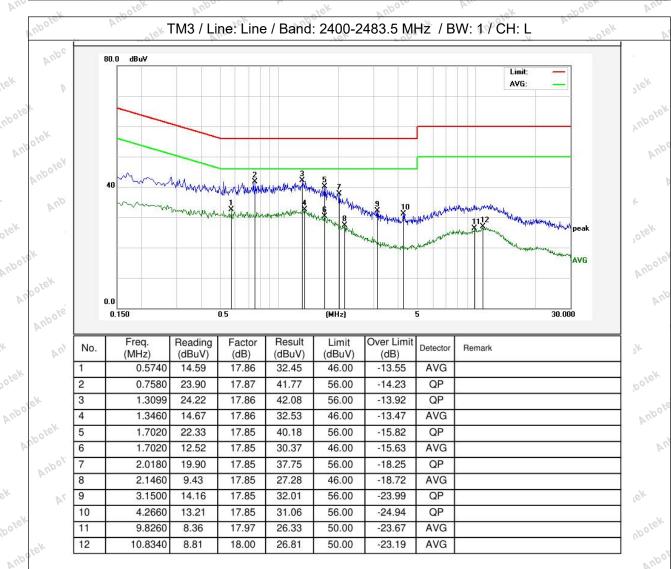






3.3. Test Data

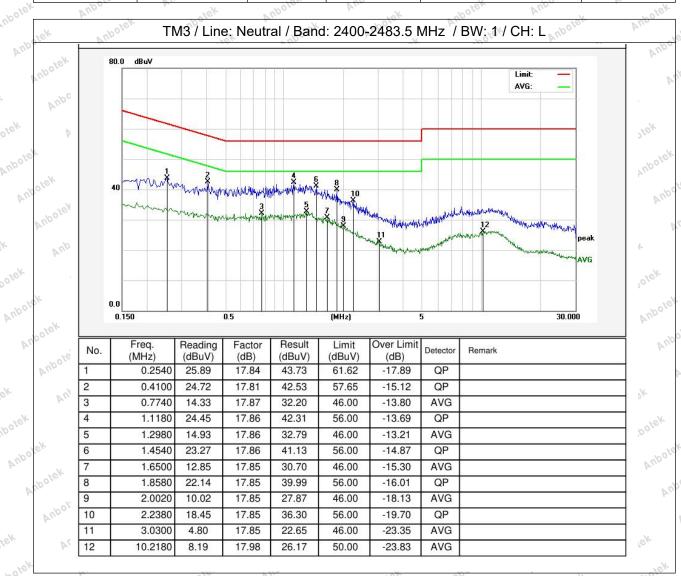
Temperature: 23.8 °C Humidity: 57 % Atmospheric Pressure: 101 kPa







Temperature: 23.8 °C Humidity: 57 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.







4. Occupied Bandwidth

| Test Requirement: | 47 CFR 15.247(a)(1) |
|---|---|
| Test Limit: Anbotek Anbotek Anbotek 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. |
| 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 |
| Whotek Aupotek Aupote | 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 |
| Aupotek Aupotek | 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 |
| ek Anbotek Ar hotek Anbotek Procedure: nbotek | from exceeding the 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 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the specified range. |
| Anbotek Anbotek Anbotek | 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 |
| Polek Vupolek | 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 |
| Aupotek Aupotek | 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. |
| otek Anbotek And | h) The occupied bandwidth shall be reported by providing spectral 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). |

4.1. EUT Operation

Operating Environment:











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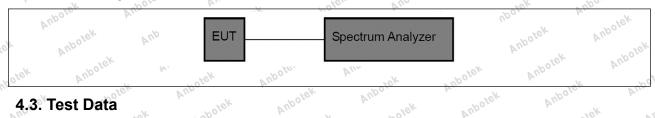
Report No.:1812C40000812501 FCC ID: 2AOV6-BLS-6-2388

1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (nonhopping) with GFSK modulation.

Test mode:

- 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.

4.2. Test Setup



4.3. Test Data

| Temperature: | 23.8 °C | Humidity: | 57 % | Atmospheric Pressure: | 101 kPa |
|---------------------|---------|--|----------|--|----------|
| . 5. (45 5. 5.15 5. | _0.0 | 700.00.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | . | 7 tallagge 1 tal | 10111110 |

Please Refer to Appendix for Details.





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Report No.:1812C40000812501 FCC ID: 2AOV6-BLS-6-2388

5. Maximum Conducted Output Power

| 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 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 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. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. 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 meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer. | Test Requirement: | 47 CFR 15.247(b)(1) |
|--|-------------------------------|--|
| 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 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. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. 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 meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum | Test Limit: Anbotek Anbotek | 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: |
| 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 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. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. 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 meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum | Test Method: | |
| 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. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. 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 meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum | Otek Vupotek | a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency |
| d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. 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 meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum | Aupotek Aupotek | 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. |
| h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. 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 meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum | Procedure: | d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. |
| 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 meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum | Aupotek Vupotek | h) Use the marker-to-peak function to set the marker to the peak of the emission. i) The indicated level is the peak output power, after any corrections for |
| meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum | lek Vipolek V | j) A spectral plot of the test results and setup description shall be included in the test report. |
| | Alpotek Alpotek | meter and sensor system video bandwidth is greater than the occupied |

5.1. EUT Operation

| 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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Report No.:1812C40000812501 FCC ID: 2AOV6-BLS-6-2388

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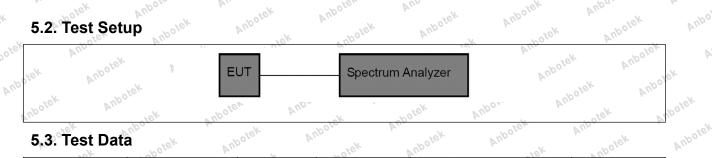
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5.2. Test Setup



5.3. Test Data

| 5.3. Test Dat | a sporek | Anbotek A | 'upole | Vupolek | Aupoler 16k | Andanbotek |
|---------------|----------|-----------|--------|---------|----------------|------------|
| Temperature: | 23.8 °C | Humidity: | 57 % | Atmosph | eric Pressure: | 101 kPa |

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Please Refer to Appendix for Details.

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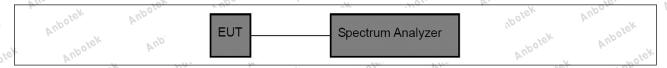
6. Channel Separation

| 700. h. | - Olo VI | 7. | 101 | ~ 0D | |
|--|--|---|---|---|------------------------------|
| Test Requirement: | 47 CFR 15.247(a)(1) | abolek | Aupor | w. Polek | Aupole. |
| Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek | Refer to 47 CFR 15.247(a) hopping channel carrier free the 20 dB bandwidth of the Alternatively, frequency ho band may have hopping changed the 25 kHz or two-thirds of the whichever is greater, proving greater than 125 mW. | equencies sepa hopping chan pping systems nannel carrier f 20 dB bandwi | arated by a manel, whicheve operating in trequencies to the dot of the ho | ninimum of 25 rer is greater. the 2400-248 hat are separa pping channel | kHz or 3.5 MHz ated by |
| Test Method: | ANSI C63.10-2020, section KDB 558074 D01 15.247 N | | e v05r02 | Aupole, Polek | And |
| Anbotek Anbotek Anbotek | The EUT shall have its hop spectrum analyzer settings a) Span: Wide enough to c b) RBW: Start with the RBN spacing; adjust as necessary channel. c) Video (or average) band | s: capture the pea W set to appro ary to best ider lwidth (VBW) ≥ | aks of two ad ximately 30% ntify the center | jacent channe 6 of the chann | ls. _{otek} el |
| Procedure. Anbotek | d) Sweep: No faster than of e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. | že. Anbotek | okek Aupoke | ootek Aupotel | otek An |
| ek ^{Aupolek} Yupo | Use the marker-delta funct peaks of the adjacent char regulatory limit shall be defincluded in the test report. | nels. Complia | nce of an EU | JT with the app | ropriate |

6.1. EUT Operation

| | Operating Envir | conment: Anbore And Tek Anborek Anborek |
|----|-----------------|---|
| | Vuporer. | 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. |
| X | Test mode: | 5: TX- π /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π /4 DQPSK modulation. |
| 00 | Jee. Ville | 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) |
| | otek Anbo | with 8DPSK modulation. |

6.2. Test Setup



6.3. Test Data

| Temperature: 23.8 °C Humidity: 57 % Atmospheric Pressure: 101 | kPa |
|---|-----|
|---|-----|

Please Refer to Appendix for Details.







7. Number of Hopping Frequencies

| Test Requirement: | 47 CFR 15.247(a)(1)(iii) | V. Viek | Aupolek |
|---|--|--|---|
| Test Limit: Anbotek Anbotek Anbotek Anbotek Anbotek | Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping s 2483.5 MHz band shall use at least 15 channels. The a occupancy on any channel shall not be greater than 0. period of 0.4 seconds multiplied by the number of hoppemployed. Frequency hopping systems may avoid or stransmissions on a particular hopping frequency provid 15 channels are used. | average time 4 seconds w ping channel suppress | e of rithin a s |
| Test Method: | ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02 | Aupolek | Anbore |
| Anbotek | The EUT shall have its hopping function enabled. Use spectrum analyzer settings: a) Span: The frequency band of operation. Depending channels the device supports, it could be necessary to range of operation across multiple spans, to allow the be clearly seen. b) RBW: To identify clearly the individual channels, set 30% of the channel spacing or the 20 dB bandwidth, w.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 sub all of the hopping frequencies. Compliance of an EUT regulatory limit shall be determined for the number of his spectral plot of the data shall be included in the test re | on the number divide the frindividual character the RBW to whichever is something the appropriate to an appropriate the approp | per of equency annels to less than smaller. |

7.1. EUT Operation

| 12. | - LDV | | | | | |
|-----------------|---|---|-----------------------------|---|----------------|----------|
| Operating Envir | onment: | P. Potek | Aupole | Vu. | Anbolek | Anbu |
| Test mode: | with GFSK 5: TX-π/4-E (hopping) w 6: TX-8DPS | modulation,. DQPSK (Hoppin vith π/4 DQPSK | g): Keep the modulation. | n continuously tr EUT in continuo in continuously | usly transmitt | ing mode |

7.2. Test Setup



7.3. Test Data

| Temperature: | 23.8 °C | Vupo, | Humidity: | 57 % | Atmospheric Pressure: | 101 kPa | P |
|--------------|---------|-------|-----------|------|-----------------------|---------|---|
| | | | | | | | |

Please Refer to Appendix for Details.







Report No.:1812C40000812501 FCC ID: 2AOV6-BLS-6-2388

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 Vindorek | 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:

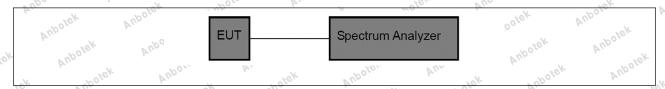
4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,..

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: | 23.8 °C | Aupo | Humidity: | 57 % | Aupor | Atmospheric Pressure: | 101 kPa | VA |
|--------------|---------|------|-----------|------|-------|-----------------------|---------|----|
|--------------|---------|------|-----------|------|-------|-----------------------|---------|----|

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 | 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 § |
| Auporek Augorek | 15.209(a) is not required. |
| Test Method: | ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Variotek Variotek Ver | 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. |
| Aupotek Aupo | Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed |
| Potek Vupotek Vek Vek Vek Vek | wireless device output and the spectrum analyzer. The frequency range of 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: | 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 |
| upotek Aupotek | 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 provided. |
| Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | 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 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.

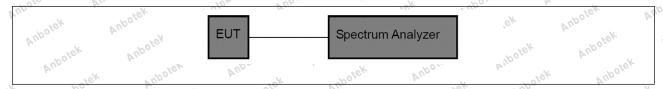
9.1. EUT Operation

Operating Environment:

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

| Temperature: 23.8 °C | Humidity: 57 % | Atmospheric Pressure: | 101 kPa 🗥 |
|----------------------|----------------|-----------------------|-----------|
|----------------------|----------------|-----------------------|-----------|

Please Refer to Appendix for Details.







10. Band edge emissions (Radiated)

| -00 | The state of the s | 107 | - V |
|-------------------|--|---------------------------------------|----------------|
| VII. | | In addition, radiated emissions | |
| Test Requirement: | | d in § 15.205(a), must also comp | |
| abole. | radiated emission limits spe | ecified in § 15.209(a)(see § 15.2 | U5(C)). |
| upote All | Frequency (MHz) | Field strength | Measurement |
| tek vupore | All soloter | (microvolts/meter) | distance |
| Aupo, ke | Anbore All | ok spoter Aug. | (meters) |
| apolek Aupo | 0.009-0.490 | 2400/F(kHz) | 300 |
| Al. | 0.490-1.705 | 24000/F(kHz) | 30 Napole |
| k Anboic Air | 1.705-30.0 | 30 K Notek And | 30 |
| r "olek | 30-88 | 100 ** | 31ek Anbo |
| oter And | 88-216 | 150 ** | 3 % |
| rek vupoje. | 216-960 | 200 ** | 3 nbore |
| Aupo | Above 960 | 500 Notes And | 3 notek |
| Test Limit: | ** Except as provided in pa | ragraph (g), fundamental emissi | ons from |
| Vin Ok Spoke | | ng under this section shall not b | |
| Aupore, Vin | frequency bands 54-72 MH | z, 76-88 MHz, 174-216 MHz or | 470-806 MHz. |
| k spokek An | | hese frequency bands is permitt | ed under other |
| Y. Alla | sections of this part, e.g., § | | ick apole |
| iek vipole, | | e, the tighter limit applies at the b | |
| 00, K. | * LL | in the above table are based on | |
| Tupos Aupos | employing a CISPR quasi-p | beak detector except for the freq | uency bands 9– |
| Aug | 90 kHz, 110–490 kHz and a | above 1000 MHz. Radiated emis | sion limits in |
| Polek Vupa | these three bands are base | ed on measurements employing | an average |
| Alla sek | detector. | otek Aupor | k Upole |
| - Anbore An | ANSI C63.10-2020 section | 6.10 botek Ando | , olek |
| Test Method: | KDB 558074 D01 15.247 M | | otek Vupa |
| Procedure: | ANSI C63.10-2020 section | 6.10.5.2 | Polek Vupote |

10.1. EUT Operation

| | , No. | - V | | 76 | V Line : | 404 | 2000 | 4. |
|---|-----------------|---------|----------|---------|----------|--------------|---------------------|-----|
| P. | 10.1. EUT Op | eration | Vupotek. | Aupolek | Anbolek | Vupor, Polek | Aupolek | Anb |
| | Operating Envir | onment: | Auport | Polek | Aupole | Vun Ofek | ^{Uupo} lek | |
| Test mode: 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting n hopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmit (non-hopping) with π/4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting hopping) with 8DPSK modulation. | | | | | | | ransmitting mo | ode |







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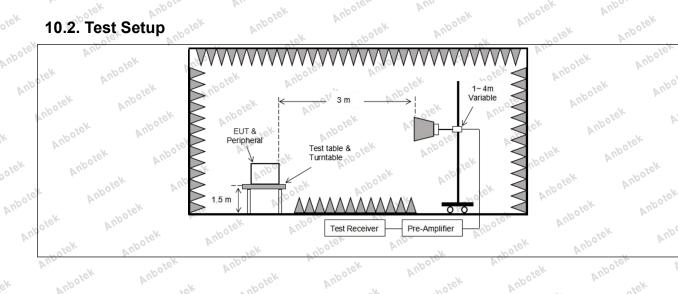
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10.2. Test Setup



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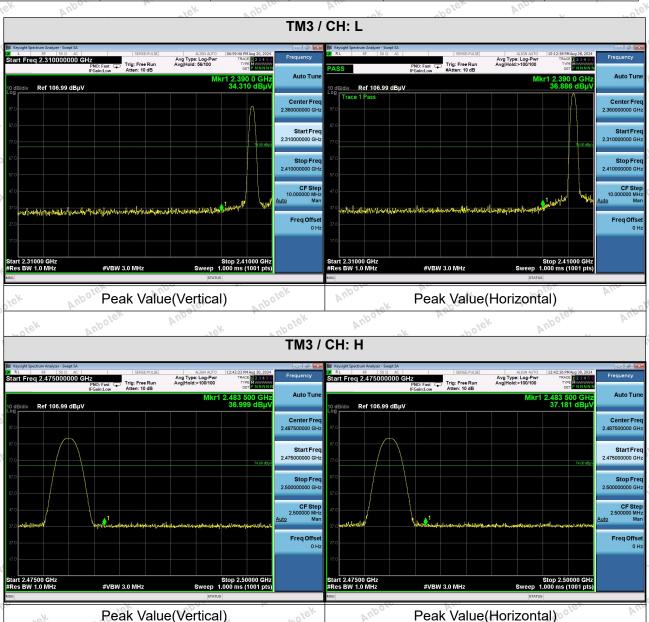
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Report No.:1812C40000812501 FCC ID: 2AOV6-BLS-6-2388

10.3. Test Data

Temperature: 25.5 °C Humidity: 41 % Atmospheric Pressure: 101 kPa



Note: 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)

| No. | Por Bri | View Vu | " " " " " " " " " " " " " " " " " " " | · V |
|---------|-------------------|---|--|-------------------------------|
| Anbore. | Test Requirement: | restricted bands, as defined | In addition, radiated emissions I in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2 | ly with the |
| ۲ | Anbotek Anbotek | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| otek | Anbotek Anbo | 0.009-0.490 0.490-1.705 | 2400/F(kHz) 24000/F(kHz) | 300 |
| hotel | k Anborek Anb | 1.705-30.0 | 30 K hotek Anbe | 30 |
| Ann | otek Anbotek | 30-88 88-216 | 100 ** 150 ** | 3 |
| Vu | bolek Anbolek | 216-960 | 200 *** | 3 |
| - - | Test Limit: | | 500 ragraph (g), fundamental emissi | ons from |
| hotek | Anbotek Anbot | frequency bands 54-72 MH | ng under this section shall not b z, 76-88 MHz, 174-216 MHz or | 470-806 MHz. |
| , abote | k Aupolek Au | sections of this part, e.g., § | | ok abotel |
| V | ootek Anboten | | , the tighter limit applies at the b n the above table are based on | |
| Ь. | Anbotek Anbote | employing a CISPR quasi-p | eak detector except for the freque and the search bove 1000 MHz. Radiated emis | uency bands 9– |
| ek. | Aupolek Aupole | | d on measurements employing | |
| nbotek | Test Method: | ANSI C63.10-2020 section KDB 558074 D01 15.247 M | | olek Vupolek |
| Aupo | Procedure: | ANSI C63.10-2020 section | 6.6.4 | "Upolek Vupo, |

11.1. EUT Operation

| | | 1 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | VII. | 40% | 10° | 4. |
|---|-----------------|---------|---|---------|---------|-------------|----------------|-----|
| P. | 11.1. EUT Op | eration | Vuporek. | Anbolek | Aupolek | Wupor Potek | Aupolek | Anb |
| | Operating Envir | onment: | Auport | Profek | Aupoles | Vun Ofek | Aupolek | |
| Test mode: 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting m hopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmit (non-hopping) with π/4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting m hopping) with 8DPSK modulation. | | | | | | | ransmitting mo | ode |





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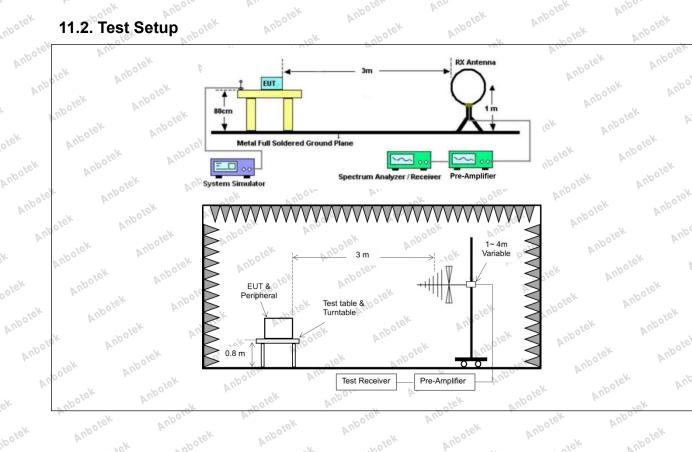
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11.2. Test Setup

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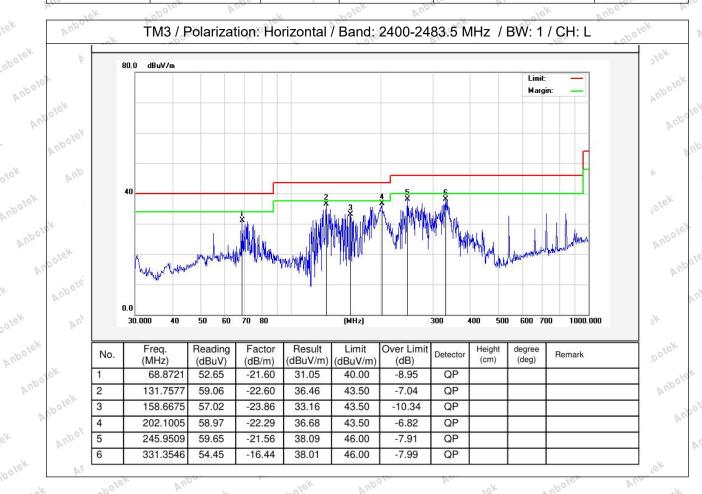




11.3. Test Data

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

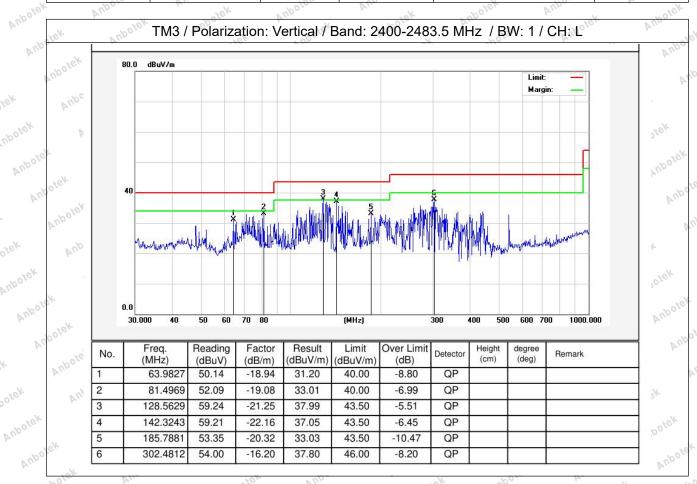
| Temperature: 23.8 °C Humidity: 57 % Atmospheric Pressure: 101 kPa |
|---|
|---|







Temperature: 23.8 °C Humidity: 57 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.





12. Emissions in frequency bands (above 1GHz)

| Test Requirement: | in § 15.209(a)(see § 15.209 | | n limits specifie |
|-------------------|---|---|--|
| Aupotek Aupote | Frequency (MHz) | Field strength (microvolts/meter) | Measuremen distance (meters) |
| e abotek Ant | 0.009-0.490 | 2400/F(kHz) | 300 |
| VI. | 0.490-1.705 | 24000/F(kHz) | 30 |
| Otek Aupore | 1.705-30.0 | 30 | 30 |
| "OFEK | 30-88 | 100 *** Anti | 3 botek |
| " upology Vup | 88-216 | 150 ** | 3.775 |
| Viek "upoler | 216-960 | 200 ** | 3 anbore |
| Aupor | Above 960 | 500 Lotek Ande | 3 101 |
| potek Anbotek An | frequency bands 54-72 MH However, operation within the sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- | ing under this section shall not be lz, 76-88 MHz, 174-216 MHz or these frequency bands is permit \$ 15.231 and 15.241. The tighter limit applies at the lain the above table are based on peak detector except for the frequency 1000 MHz. Radiated emissions. | 470-806 MHz. ted under other oand edges. measurements guency bands 9 |
| Aupotek Aupotek | | ed on measurements employing | |
| Test Method: | these three bands are base | ed on measurements employing 6.6.4 | |

12.1. EUT Operation

| | Operating Envir | onment: |
|----|-----------------|--|
| Y. | Aupolo | 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- |
| 00 | Itek Aupotek | hopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode |
| | Test mode: | (non-hopping) with π/4 DQPSK modulation. |
| 1 | 'upo | 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non- |
| | Polo. V | hopping) with 8DPSK modulation. |







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12.2. Test Setup

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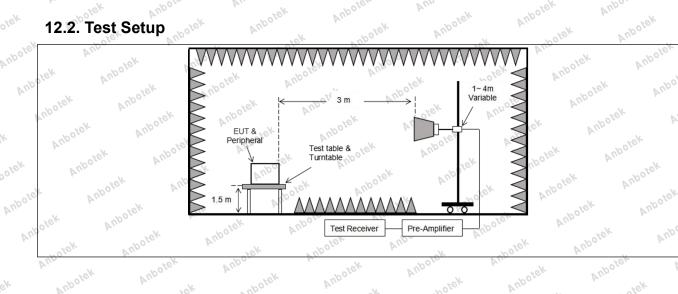
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Report No.:1812C40000812501 FCC ID: 2AOV6-BLS-6-2388

12.3. Test Data

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| 12.3. Test Data | Aupoiek 16k | Aupolek | Aupotek Aupote | Anbotek |
|----------------------|-------------|---------|-----------------------|---------|
| Temperature: 23.8 °C | Humidity: | 57 % | Atmospheric Pressure: | 101 kPa |

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| tek Aupore | P. Stek | Aupologa | Vun | k abotek | Anba | , , , , o/e |
|---------------------|-------------------|------------------|--------------------|------------------------|--------------------|--------------|
| | | - | TM1 / CH: L | | | |
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4804.00 | 28.53 | 15.27 | 43.80 | 74.00 | -30.20 | Vertical |
| 7206.00 | 29.46 | 18.09 | 47.55 | 74.00 | -26.45 | Vertical |
| 9608.00 | 30.75 | 23.76 | 54.51 | 74.00 | -19.49 | Vertical |
| 12010.00 | * * | tek Nupo | ich Aup | 74.00 | olek Yupo | Vertical |
| 14412.00 | ootek * Aup | S | potek An | 74.00 | olek a | Vertical V |
| 4804.00 | 28.79 | 15.27 | 44.06 | 74.00 | -29.94 | Horizontal |
| 7206.00 | 30.14 | 18.09 | 48.23 | 74.00 | -25.77 | Horizontal |
| 9608.00 | 28.82 | 23.76 | 52.58 | 74.00 | -21.42 | Horizontal |
| 12010.00 | *Upole | VIII. | Vupo, ek | 74.00 | k abolek | Horizontal |
| 14412.00 | ek * nboke | k Aupold | , bo | 74.00 | P. | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4804.00 | 17.91 | 15.27 | 33.18 | 54.00 | -20.82 | Vertical |
| 7206.00 | 18.49 | 18.09 | 36.58 | 54.00 | -17.42 | Vertical |
| 9608.00 | 19.77 | 23.76 | 43.53 | 54.00 100 | -10.47 | Vertical |
| 12010.00 | * Yun | 101 101 | olek Vup. | 54.00 | potek Aut | Vertical |
| 14412.00 | upotek * Ar | 100, | Polek | 54.00 | rek | Vertical |
| 4804.00 | 17.14 | 15.27 | 32.41 | 54.00 | -21.59 | Horizontal |
| 7206.00 | 19.20 | 18.09 | 37.29 | 54.00 | -16.71 | Horizontal |
| 9608.00 12010.00 | 18.13 | 23.76 | 41.89 | 54.00 | -12.11 | Horizontal |
| 12010.00 | * * Aupolek | VUD. | k upote | 54.00 | of work | Horizontal |
| 14412.00 | * * | ick Vupor | - V | 54.00 M | to Villa | Horizontal |

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Report No.:1812C40000812501 Anbotek FCC ID: 2AOV6-BLS-6-2388

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| | Anbotek Ar | | ΓM1 / CH: M | - 07 | | Anbotek |
|--------------------|-------------------|------------------|--------------------|------------------------|--------------------|--------------|
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4882.00 | otek 28.55 km² | 15.42 | 43.97 | 74.00 | -30.03 | Vertical |
| 7323.00 | 29.31 | 18.02 N | 47.33 | 74.00 | -26.67 | Vertical |
| 9764.00 | 29.76 | 23.80 | 53.56 | 74.00 | -20.44 | Vertical |
| 12205.00 | Wupore, | Vup | Aupolek | 74.00 | Potek | Vertical |
| 14646.00 | *polek | Aupor | Polek | 74.00 | Vun | Vertical |
| 4882.00 | 28.49 | 15.42 | 43.91 | 74.00 | -30.09 | Horizontal |
| 7323.00 | 30.13 | 18.02 | 48.15 | 74.00 | otek -25.85 knbc | Horizontal |
| 9764.00 | otek 28.52 knb | 23.80 | 52.32 | 74.00 | -21.68 | Horizontal |
| 12205.00 | "Olek* | Aupole. P | Lek Up | 74.00 | Vupo. | Horizontal |
| 14646.00 | Yun * | upolek | Vupore. | 74.00 | Aupotok | Horizontal |
| Average value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | polarization |
| 4882.00 | 17.64 | otek 15.42 Mal | 33.06 | 54.00 | -20.94 | Vertical |
| 7323.00 | 18.59 | 18.02 | 36.61 | 54.00 | -17.39 | Vertical |
| 9764.00 | 19.63 | 23.80 | 43.43 | 54.00 | -10.57 | Vertical |
| 12205.00 | *tek | Aupoter | V. OFEK | 54.00 | Ans | Vertical |
| 14646.00 | Att. | Aupolek | Anbek | 54.00 | Aupor | Vertical |
| 4882.00 | 17.05 | 15.42 | 32.47 | 54.00 | -21.53 | Horizontal |
| 7323.00 | 18.76 nbo | 18.02 | 36.78 | 54.00 | -17.22 | Horizontal |
| 9764.00 | 18.64 | 23.80 | 42.44 | 54.00 | -11.56 | Horizontal |
| 12205.00 | 14 × | abolek | Aupore | 54.00 | Auporer | Horizontal |
| 14646.00 | Anbotek | Viek | Aupolek | 54.00 | Pupolek | Horizontal |

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| ~o _{fe} , | YUL | 16K | " Upo | . ok | polo | B.i. |
|--------------------|-------------------|----------------------|--------------------|------------------------|----------------------------|--------------|
| | | - | TM1 / CH: H | | | |
| Peak value: | | | | | | |
| Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4960.00 | 28.82 | 15.58 nbb | 44.40 | otek 74.00 pho | -29.60 | Vertical |
| 7440.00 | 29.32 | 17.93 | 47.25 | 74.00 | -26.75 | Vertical |
| 9920.00 | 30.31 | 23.83 | 54.14 | 74.00 | -19.86 | Vertical |
| 12400.00 | No to K | Anbo. | k. hotek | 74.00 | Vier | Vertical |
| 14880.00 | * tek | Aupolek | Aug | 74.00 | Aupore | Vertical |
| 4960.00 | 28.56 | 15.58 | 44.14 | 74.00 | -29.86 | Horizontal |
| 7440.00 | 30.16 | 17.93 | 48.09 | 74.00 | -25.91 | Horizontal |
| 9920.00 | 16×29.20 NO | 23.83 And | 53.03 | okek 74.00 And | -20.97 | Horizontal |
| 12400.00 | * | abolek A | 1/20 K | 74.00 | Anbole. A | Horizontal |
| 14880.00 | Anbore * | rotek. | 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 | 18.76 | 15.58 nb | 34.34 | 54.00 | -19.66 kmb | Vertical |
| 7440.00 | 19.60 | 17.93 | 37.53 | 54.00 | -16.47 | Vertical |
| 9920.00 | 20.18 | 23.83 | 44.01 | 54.00 | -9.99 | Vertical |
| 12400.00 | Vun * | upotek | Aupo | 54.00 | Anboto | Vertical |
| 14880.00 | VUJ. | hotek | Aupolok | 54.00 | Vupolek | Vertical |
| 4960.00 | 18.49 | 15.58 | 34.07 | 54.00 | -19.93 | Horizontal |
| 7440.00 | 20.13 | 17.93 nbbb | 38.06 | 54.00 noo | -15.94 | Horizontal |
| 9920.00 | 18.54 | ~~\ ^{23.83} | 42.37 | 54.00 | , o ^{te -} -11.63 | Horizontal |
| 12400.00 | 'upole * Y | in in | nbotek | 54.00 | spolek | Horizontal |
| 14880.00 | notak | Aupo | Viek. | 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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