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# FCC Test Report

Applicant : Grastron Technology CO., LTD

401 Building#B Dingxin Science and

Address Technology Park, Honglangbei #2 Road, Xin'an

street, Baoan district, Shenzhen, Guangdong

Province, 518101, China

Product Name : BYOM Wireless Conference System

Report Date : Jan. 19, 2024

Shenzhen Anbotek Compliance Laboratory Limited

\* Approved \*\*







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## TEST REPORT

Applicant : Grastron Technology CO., LTD

Manufacturer : Grastron Technology CO., LTD

Product Name : BYOM Wireless Conference System

Test Model No. : WMB-P35

WU-20, WU-21, WU-22, WU-23, WU-24, WU-25, WU-26, WU-27, WU-28,

Reference Model No. : WU-29, WMB-P30, WMB-P31, WMB-P32, WMB-P33, WMB-P34, WMB-

P36, WMB-P37, WMB-P38, WMB-P39

Trade Mark : N/A

Rating(s) : Input: 12V--- 3A

47 CFR Part 15E ANSI C63.10-2020

Test Standard(s) KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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:              | Dec. 12, 2023                 |
|-------------------------------|-------------------------------|
| Date of Test:                 | Dec. 12, 2023 ~ Jan. 05, 2024 |
|                               | Nian xiu Chen                 |
| Prepared By:                  | Autore Autore Au              |
|                               | (Nianxiu Chen)                |
|                               | Zolward pan                   |
| Approved & Authorized Signer: | Anbote And tek abotek Anbo    |
|                               | (Edward Pan)                  |







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### **Revision History**

|    | Report Version       | Description             | Issued Date          |
|----|----------------------|-------------------------|----------------------|
|    | Anborte R00 potek An | Original Issue.         | Jan. 19, 2024        |
| 97 | Anbotek Anbotek      | Anbotek Anbotek Anbotek | K abotek Anbotek Anb |
| 10 | or Anbotek Anboten   | Anbotek Anbotek Anbo.   | tek anbotek Anbotek  |





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### 1. General Information

### 1.1. Client Information

| Applicant    | :   | Grastron Technology CO., LTD   |  |  |
|--------------|---|--|--|--|
| Address      | :   | 401 Building#B Dingxin Science and Technology Park,Honglangbei #2<br>Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province,<br>518101, China |  |  |
| Manufacturer | Manufacturer : Grastron Technology CO., LTD   |  |  |  |
| Address      | 401 Building#B Dingxin Science and Technology Park,Honglangbei<br>ess : Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province,<br>518101, China |  |  |  |
| Factory      | :   | Grastron Technology CO., LTD   |  |  |
| Address      | :   | 401 Building#B Dingxin Science and Technology Park,Honglangbei #2<br>Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province,<br>518101, China |  |  |

### 1.2. Description of Device (EUT)

| Product Name           | : | BYOM Wireless Conference System   |
|------------------------|---|---|
| Test Model No.         | : | WMB-P35   |
| Reference Model<br>No. | : | WU-20, WU-21, WU-22, WU-23, WU-24,WU-25, WU-26, WU-27, WU-28, WU-29, WMB-P30, WMB-P31, WMB-P32, WMB-P33, WMB-P34, WMB-P36, WMB-P37, WMB-P38, WMB-P39 (Note: All samples are the same except the model number and appearance color, so we prepare "WMB-P35" for test only.)                |
| Trade Mark             | : | N/A otek Anbotek Anbotek Anbotek Anbotek  |
| Test Power Supply      | : | AC 120V/60Hz for Adapter  |
| Test Sample No.        | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample)   |
| Adapter                | : | Manufacturer: Dong Guan City GangQi Electronic Co., Ltd<br>Model: GQ36-120300-AX<br>Input: 100-240V~ 50/60Hz 1.0A Max<br>Output: 12.0V= 3.0A 36.0W  |
| RF Specification       |   |   |
| Operation<br>Frequency | : | 802.11a/n(HT20)/ac(VHT20)/ax(HEW20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 3: 5745MHz to 5825MHz;  802.11n(HT40)/ac(VHT40)/ax(HEW40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 3: 5755MHz to 5795MHz;  802.11ac(VHT80)/ax(HEW80): U-NII Band 1: 5210MHz; U-NII Band 3: 5775MHz |
| Number of Channel      | : | 802.11a/n(HT20)/ac(VHT20)/ax(HEW20):<br>U-NII Band 1: 4;  |







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| hote. And           |    | tek noo, W. ok pose, Wun                                    |
|---------------------|----|---|
| ,                   |    | U-NII Band 3: 5;  |
|                     |    | 802.11n(HT40)/ac(VHT40)/ax(HEW40):                          |
|                     |    | U-NII Band 1: 2;  |
|                     |    | U-NII Band 3: 2;  |
|                     |    | And tek spotek Ando k hotek Andore And                      |
| (e                  |    | 802.11ac(VHT80)/ax(HEW80):                                  |
| <b>V</b>            |    | U-NII Band 1: 1;<br>U-NII Band 3: 1                         |
| 2.                  |    | 802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM);                    |
|                     |    | 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);                   |
| Modulation Type     | 1: | 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);          |
|                     |    | 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) |
|                     |    | Anbote And ok shotek Anbo A. Stek Anbote                    |
| Antenna Type        |    | ANT1: Rod Antenna   |
| Titletina Type      | ļ. | ANT2: Rod Antenna   |
|                     |    | WiFi 5.2G ANT1: 1.75 dBi                                    |
| Antenna Gain(Peak)  |    | WiFi 5.2G ANT2: 1.75 dBi                                    |
| Antenna Gamer Care  | •  | WiFi 5.8G ANT1: 3.88 dBi                                    |
|                     |    | WiFi 5.8G ANT2: 3.88 dBi                                    |
| Directional antenna |    | WiFi 5.2G: 4.76 dBi   |
| gain                | T: | WiFi 5.8G: 6.89 dBi   |
| Dalas and a N       |    |   |

#### 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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### 1.3. Auxiliary Equipment Used During Test

| Title            | Manufacturer    | Model No.       | Serial No.       |
|------------------|-----------------|-----------------|------------------|
| Anborek / Anbore | Antotek Anbotek | Anbor An nbotek | Anbotel And hote |

### 1.4. Operation channel list

Operation Band: U-NII Band 1

| Bandwidth:    | 20MHz              | 20MHz Bandwidth: |                    | 40MHz Bandwidth: |                    |
|---------------|--------------------|------------------|--------------------|------------------|--------------------|
| Channel       | Frequency<br>(MHz) | Channel          | Frequency<br>(MHz) | Channel          | Frequency<br>(MHz) |
| 36            | 5180               | otek 38 Mbotek   | 5190               | abor 42 Ant      | 5210               |
| 40 otek       | 5200               | hotek 46 Anbor   | 5230               | by Yek           | Aupoles / Aug      |
| tek 44 nbotek | 5220               | And hotely Ant   | otek / Allpo       | k hotek          | Anboro. An         |
| 48            | 5240               | Pur Pick         | Aupolek / Aupon    | tek I spotek     | Vupoje,            |

Operation Band: U-NII Band 3

| Bandwidth: | 20MHz              | Bandwidth:    | 40MHz              | Bandwidth: | 80MHz              |
|------------|--------------------|---------------|--------------------|------------|--------------------|
| Channel    | Frequency<br>(MHz) | Channel       | Frequency<br>(MHz) | Channel    | Frequency<br>(MHz) |
| 149        | 5745               | 151           | obotek 5755 Anbote | 155        | 5775               |
| 153        | 5765 botel         | 159           | 5795 And           | ofe /Ans   | ALX OF CH          |
| 157        | Sport 5785 Anhore  | Agoo          | anborek 6          | upore 1 Am | tek Anbotek        |
| A-161      | 5805 And           | oten / Anbo   | Amorek             | Anbor An   | botek / Anboter    |
| 165        | 5825               | inpose. / Aug | tek Inbotek        | Aupo, A    | abotek / Anbo      |



Hotline



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### 1.5. Description of Test Modes

| Pretest Modes   | Descriptions  |
|---|---|
| Anbotek Anbotek Ar                                    | Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.               |
| otek Anborek<br>Antika Anborek<br>Anborek Anborek     | Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.  |
| Anbotek TM3   | Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |
| otek Anbotek Anbotek<br>TM4 Anbotek<br>Anbotek Anbote | Keep the EUT in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |

### 1.6. Measurement Uncertainty

| Parameter                                | Uncertainty   |
|--|---|
| Conducted emissions (AMN 150kHz~30MHz)   | 3.4dB Anbore And Anborek Anborek                          |
| Conducted Output Power                   | 0.76dB Anbore And Anborek Anborek                         |
| Power Spectral Density                   | 0.76dB Anborek Anborek Anborek                            |
| Occupied Bandwidth                       | 925Hz Anborek Anborek                                     |
| Radiated spurious emissions (above 1GHz) | 1G-6GHz: 4.78dB;<br>6G-18GHz: 4.88dB<br>18G-40GHz: 5.68dB |
| Radiated emissions (Below 30MHz)         | 3.53dB Anbotek Anbotek Anbotek Anbotek                    |
| 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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#### 1.7. Test Summary

| Test Items                                 | Test Modes        | Status      |
|--|-------------------|-------------|
| Conducted Emission at AC power line        | Mode1,2,3,4       | Ant P tek   |
| Duty Cycle                                 | Mode1,2,3,4       | P           |
| Maximum conducted output power             | Mode1,2,3,4       | P P         |
| Power spectral density                     | Mode1,2,3,4       | b by        |
| Emission bandwidth and occupied bandwidth  | Mode1,2,3,4       | Inport Pk   |
| Band edge emissions (Radiated)             | Mode1,2,3,4       | Anber Priek |
| Undesirable emission limits (below 1GHz)   | Mode1,2,3,4       | PP of       |
| Undesirable emission limits (above 1GHz)   | Mode1,2,3,4       | Panb        |
| Note:<br>P: Pass<br>N: N/A, not applicable | hotek Anbotek Anb | upotek An   |

### 1.8. Description of Test Facility

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

#### FCC-Registration No.: 434132

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

#### ISED-Registration No.: 8058A

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

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

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





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#### 1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 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.
- The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

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







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### 1.10. Test Equipment List

| Cond    | ucted Emission at A                                | C power line     | Aupo      | k spotel         | Anbore       | An           |
|---------|--|------------------|-----------|------------------|--------------|--------------|
| Item    | Equipment  | Manufacturer     | Model No. | Serial No.       | Last Cal.    | Cal.Due Date |
| . 1     | L.I.S.N. Artificial<br>Mains Network               | Rohde & Schwarz  | ENV216    | 100055           | 2023-10-12   | 2024-10-11   |
| 2 5016K | Three Phase V-<br>type Artificial<br>Power Network | CYBERTEK         | EM5040DT  | E215040D<br>T001 | 2023-07-05   | 2024-07-04   |
| 3       | EMI Test Receiver                                  | Rohde & Schwarz  | ESCI      | 100627           | 2023-10-12   | 2024-10-11   |
| 4       | Software Name<br>EZ-EMC                            | Farad Technology | ANB-03A   | N/A              | rek /Anbotek | Anborotek    |

**Duty Cycle** 

Maximum conducted output power

Power spectral density

Emission bandwidth and occupied bandwidth

| Emis              | sion pandwidin and d                        | occupied bandwidth |                | , oo,           | br.        | - ~oie,      |
|-------------------|---|--------------------|----------------|-----------------|------------|--------------|
| Item              | Equipment                                   | Manufacturer       | Model No.      | Serial No.      | Last Cal.  | Cal.Due Date |
| 1 <sub>A</sub> nk | Constant<br>Temperature<br>Humidity Chamber | ZHONGJIAN          | ZJ-<br>KHWS80B | N/A nbo         | 2023-10-16 | 2024-10-15   |
| <sub>e</sub> 2    | DC Power Supply                             | IVYTECH            | IV3605         | 1804D360<br>510 | 2023-10-20 | 2024-10-19   |
| 3'                | Spectrum<br>Analyzer                        | Rohde & Schwarz    | FSV40-N        | 101792          | 2023-05-26 | 2024-05-25   |
| An4ote            | MXA Spectrum<br>Analysis                    | KEYSIGHT           | N9020A         | MY505318<br>23  | 2023-02-23 | 2024-02-22   |
| 5,00              | Oscilloscope                                | Tektronix          | MDO3012        | C020298         | 2023-10-12 | 2024-10-11   |
| 6                 | MXG RF Vector<br>Signal Generator           | Agilent            | N5182A         | MY474206<br>47  | 2023-02-23 | 2024-10-22   |

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| Band             | edge emissions (Ra            | idiated)         | N. Anbotak           | Aupore          | Ann        | Aupotek A    |
|------------------|-------------------------------|------------------|----------------------|-----------------|------------|--------------|
| Unde             | sirable emission limi         | ts (above 1GHz)  | hotek                | Aupore          | V.L.       | - abotek     |
| Item             | Equipment                     | Manufacturer     | Model No.            | Serial No.      | Last Cal.  | Cal.Due Date |
| 1 00             | EMI Test Receiver             | Rohde & Schwarz  | ESR26                | 101481          | 2023-10-12 | 2024-10-11   |
| 2                | EMI Preamplifier              | SKET Electronic  | LNPA-<br>0118G-45    | SKET-PA-<br>002 | 2023-10-12 | 2024-10-11   |
| 3                | Double Ridged<br>Horn Antenna | SCHWARZBECK      | BBHA<br>9120D        | 02555           | 2022-10-16 | 2025-10-15   |
| nbote 4          | EMI Test Software<br>EZ-EMC   | SHURPLE          | N/A                  | N/A             | Andotek    | Anbotek      |
| 5                | Horn Antenna                  | A-INFO           | LB-180400-<br>KF     | J21106062<br>8  | 2023-10-12 | 2024-10-11   |
| 6                | Spectrum<br>Analyzer          | Rohde & Schwarz  | FSV40-N              | 101792          | 2023-05-26 | 2024-05-25   |
| e <sup>k</sup> 7 | Amplifier                     | Talent Microwave | TLLA18G40<br>G-50-30 | 23022802        | 2023-05-25 | 2024-05-24   |

| Unde     | sirable emission limit     | ts (below 1GHz) | Anbore.       | Vur Potek  | Anbotek    | Anbo         |
|----------|----------------------------|-----------------|---------------|------------|------------|--------------|
| Item     | Equipment                  | Manufacturer    | Model No.     | Serial No. | Last Cal.  | Cal.Due Date |
| 1        | EMI Test Receiver          | Rohde & Schwarz | ESR26         | 101481     | 2023-10-12 | 2024-10-11   |
| 2        | Pre-amplifier              | SONOMA          | 310N          | 186860     | 2023-10-12 | 2024-10-11   |
| 3/-      | Bilog Broadband<br>Antenna | Schwarzbeck     | VULB9163      | 345        | 2022-10-23 | 2025-10-22   |
| Anitotel | Loop Antenna (9K-<br>30M)  | Schwarzbeck     | FMZB1519<br>B | 00053      | 2023-10-12 | 2024-10-11   |
| 5,00     | EMI Test Software EZ-EMC   | SHURPLE         | N/A           | N/A door   | y Aupo     | k Anbotek    |





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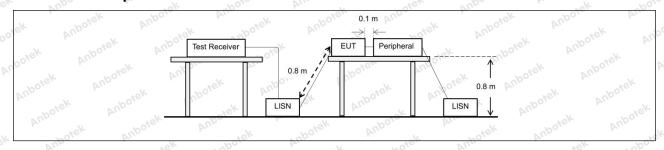
### 2. Conducted Emission at AC power line

| Test Requirement: | 47 CFR Part 15.207(a)                | ick hotek An          | pore. And   |
|-------------------|--------------------------------------|-----------------------|-------------|
| Aug sek spotek    | Frequency of emission (MHz)          | Conducted limit (dBµV | ) boten And |
| Anbor Ar          | tel uporen And                       | Quasi-peak            | Average     |
| K- Lotek Anbo     | 0.15-0.5                             | 66 to 56*             | 56 to 46*   |
| Test Limit:       | 0.5-5 And                            | 56°                   | 46 300 tell |
| otek Anbore A     | 5-30                                 | 60 hotek Anbot        | 50          |
| atek Anbotek      | *Decreases with the logarithm of the | he frequency.         | Aupo Sk     |
| Test Method:      | ANSI C63.10-2020 section 6.2         | Augo Kek              | otek Anbore |

### 2.1. EUT Operation

| Operating Envi                             | ronment: And tek Andorek Andorek Andorek Andorek Andorek  |
|--|---|
| otek Anbotek<br>Nbotek Anbot<br>Anbotek An | 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.  2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |
| Test mode:                                 | 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.   |
| Anbotek Anbote                             | 4: 802.11ax mode: Keep the EUT in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.   |

#### 2.2. Test Setup



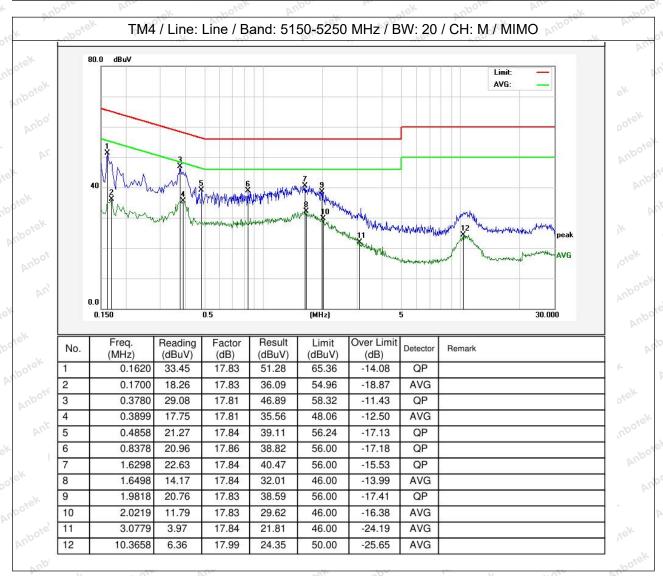




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#### 2.3. Test Data

| T-200' P''   | 40.000 | 0107          | i alidi u | E4 0/ | Val   | Atus a sulla Dua a suura u | VADA LIDE OF CHET |
|--------------|--------|---------------|-----------|-------|-------|----------------------------|-------------------|
| Temperature: | 19.2°C | _ \u00ab   Ht | ımidity:  | 51 %  | -1070 | Atmospheric Pressure:      | TOTKPA            |
| · -V-        | V.O.   | Pro-          | -         | 740.  | V U   | 70                         | ) ·               |

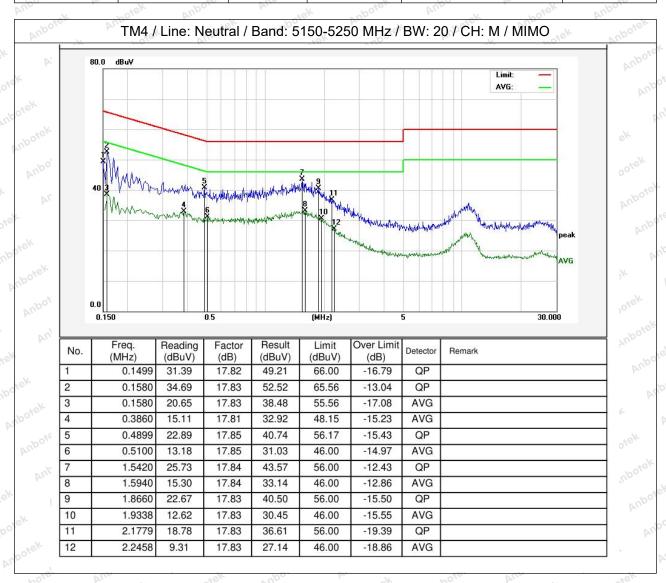






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Temperature: 19.2 °C Humidity: 51 % Atmospheric Pressure: 101 kPa

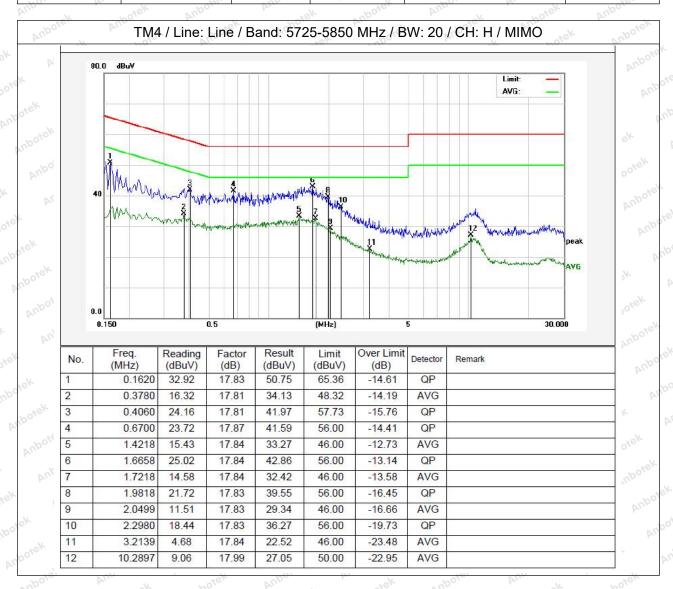






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Temperature: 19.2 °C Humidity: 51 % Atmospheric Pressure: 101 kPa

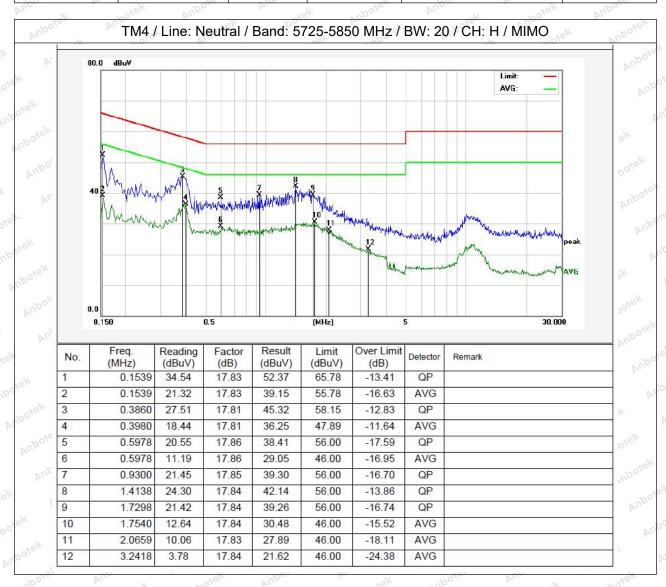






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Temperature: 19.2 °C Humidity: 51 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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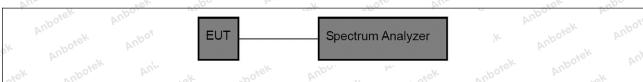
### 3. Duty Cycle

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

### 3.1. EUT Operation

| Operating Envi                             | ronment: Andrek Andrek Andrek Andrek Andrek Andrek  |
|--|---|
| tek Anbotek  hbotek Anbote  anbotek Anbote | 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.  2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |
| Test mode:                                 | 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.   |
| ootek Anbotel                              | 4: 802.11ax mode: Keep the EUT in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.   |

### 3.2. Test Setup



### 3.3. Test Data

| Temperature: | 25.4 °C | Humidity: | 46 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|
|--------------|---------|-----------|------|-----------------------|---------|

Please Refer to Appendix for Details.







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### 4. Maximum conducted output power

| Procedure:   | Refer to ANSI C63.10-2020 section 12.4  |
|--|---|
| Test Method:   | ANSI C63.10-2013, section 12.4  |
| nbotek Anbotek Antotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations. |
| Test Limit:  | For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.  If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that   |
| k Anbotek Anbotek Anbotek Anbotek  | For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.  |
| Test Requirement:  | 47 CFR Part 15.407(a)(1)(iv)<br>47 CFR Part 15.407(a)(3)(i)   |

### 4.1. EUT Operation

| Operating Env                  | ironment:   |
|--------------------------------|---|
| sek Aupotek                    | 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is   |
| hotek Anbote                   | the worst case. Only the data of worst case is recorded in the report.  2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n  |
| Anbotek Anb                    | modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.  |
| Test mode:                     | 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |
| Aupotek Aupote<br>Potek Vupote | 4: 802.11ax mode: Keep the EUT in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |

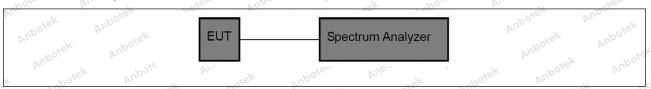






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#### 4.2. Test Setup



#### 4.3. Test Data

| 10 | Tanàn araturas | 25.4 °C | Llumpidite | 4C 0/0010 | Atmoonbaria Drassura  | 101 kDa |
|----|----------------|---------|------------|-----------|-----------------------|---------|
|    | Temperature:   | 25.4 °C | Humidity:  | 46 %      | Atmospheric Pressure: | 101 kPa |

Please Refer to Appendix for Details.





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### 5. Power spectral density

| Test Requirement:   | 47 CFR Part 15.407(a)(1)(iv)<br>47 CFR Part 15.407(a)(3)(i)   |
|---|---|
| Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek | For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.  For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.  |
| Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek Anborek     | If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.  Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters |
| Anbotek Anbotek   | transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.   |
| Test Method:  | ANSI C63.10-2020, section 12.6  |
| Procedure:  | Refer to ANSI C63.10-2020, section 12.6   |

### 5.1. EUT Operation

| Operating Envi | ronment:   |
|----------------|--|
| potek Anbotek  | 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.  2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.                  |
| Test mode:     | 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.  4: 802.11ax mode: Keep the EUT in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |

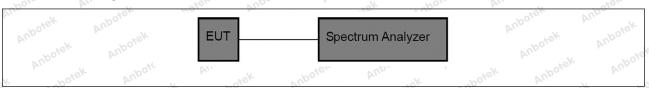






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#### 5.2. Test Setup



#### 5.3. Test Data

| 10 | Tanàn araturas | 25.4 °C | Llumpidite | 4C 0/0010 | Atmoonbaria Drassura  | 101 kDa |
|----|----------------|---------|------------|-----------|-----------------------|---------|
|    | Temperature:   | 25.4 °C | Humidity:  | 46 %      | Atmospheric Pressure: | 101 kPa |

Please Refer to Appendix for Details.





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### 6. Emission bandwidth and occupied bandwidth

| - spotek Anbote   | U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.                 |
|-------------------|--|
| Test Requirement: | Anbo Anbore Anbore Anbore Anbore   |
| Aupore Am         | U-NII 3, U-NII 4: 47 CFR Part 15.407(e)                                      |
| Anbotek Anb       | U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.                 |
| Test Limit:       | U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands,      |
| V. Votek          | the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.       |
| Test Method:      | ANSI C63.10-2020, section 6.9 & 12.5<br>KDB 789033 D02, Clause C.2           |
| Pupo, k. Polsky   | - 400, by, A 2046, My  |
|                   | Emission bandwidth: a) Set RBW = approximately 1% of the emission bandwidth. |
|                   | b) Set the VBW > RBW.  |
|                   | c) Detector = peak.  |
|                   | d) Trace mode = max hold.  |
|                   | e) Measure the maximum width of the emission that is 26 dB down from the     |
|                   | peak of the emission.  |
|                   | Compare this with the RBW setting of the instrument. Readjust RBW and        |
|                   | repeat measurement   |
|                   | as needed until the RBW/EBW ratio is approximately 1%.                       |
|                   | as needed until the NEW/LEW ratio is approximately 176.                      |
| anboten Anbo      | Occupied 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 1.5 times and      |
|                   | 5.0 times the OBW.   |
|                   | b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to |
|                   | 5% of the OBW,   |
|                   | and VBW shall be approximately three times the RBW, unless otherwise         |
| - Intek Anbor     | specified by the   |
| Procedure:        | 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 general, the peak of the  |
|                   | spectral envelope  |
|                   | shall be more than [10 log (OBW/RBW)] below the reference level. Specific    |
|                   | guidance is given  |
| Anbe              | in 4.1.5.2.  |
| aboten And        | d) Step a) through step c) might require iteration to adjust within the      |
|                   | specified range.   |
|                   | e) Video averaging is not permitted. Where practical, a sample detection and |
|                   | single sweep mode  |
|                   | shall be used. Otherwise, peak detection and max hold mode (until the trace  |
|                   | stabilizes) shall be   |
| un of wotek       | used.  |
|                   | f) Use the 99% power bandwidth function of the instrument (if available) and |
|                   | report the measured  |
|                   | bandwidth.   |
|                   | g) If the instrument does not have a 99% power bandwidth function, then the  |
|                   | trace data points are  |









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recovered and directly summed in linear power terms. The recovered amplitude data points,

beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached:

that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the

total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is

the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument

display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may

be reported in addition to the plot(s).

6 dB emission bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3 >= RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 6.1. EUT Operation

#### **Operating Environment:**

- 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
- 2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

#### Test mode:

- 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 4: 802.11ax mode: Keep the EUT in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.



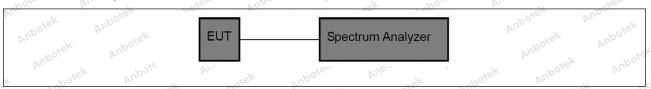
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#### 6.2. Test Setup



#### 6.3. Test Data

| 10 | Tanàn araturas | 25.4 °C | Llumpidite | 4C 0/0010 | Atmoonbaria Drassura  | 101 kDa |
|----|----------------|---------|------------|-----------|-----------------------|---------|
|    | Temperature:   | 25.4 °C | Humidity:  | 46 %      | Atmospheric Pressure: | 101 kPa |

Please Refer to Appendix for Details.





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### 7. Band edge emissions (Radiated)

| hotek Anba      | 47 CFR Part 15.407(b                        |                         |                     |                 |
|-----------------|---|-------------------------|---------------------|-----------------|
| st Requirement: | 47 CFR Part 15.407(b                        | W.) " O                 |                     |                 |
| Aupole, Aug     | 47 CFR Part 15.407(b                        | )(10)                   | Anbore. A           | , ok            |
| potek Anbor     | For transmitters opera                      | ting in the 5.15-5.25   | GHz band: All en    | nissions outsid |
| And             | of the 5.15-5.35 GHz k                      | oand shall not exceed   | l an e.i.r.p. of −2 | 7 dBm/MHz.      |
| Anbore An       |   |                         |                     |                 |
| ok hotek        | For transmitters opera                      |                         |                     |                 |
| Ve. Vun         | All emissions shall be                      |                         |                     |                 |
| botek Anbore    | above or below the ba                       |                         |                     |                 |
| is abotek       | above or below the ba                       | .0.1"                   |                     |                 |
| Anbore And      | edge increasing linear below the band edge, |                         |                     |                 |
| hotek Anbo.     | increasing linearly to a                    |                         |                     |                 |
| Aug Sek         | MHz   | MHz                     | MHz                 |                 |
| Anbore Air      |   | 177.                    | - AV                | GHZ             |
| ok hotek        | 0.090-0.110                                 | 16.42-16.423            | 399.9-410           | 4.5-5.15        |
| An              | 10.495-0.505                                | 16.69475-<br>16.69525   | 608-614             | 5.35-5.46       |
| otek Anbore     | 2.1735-2.1905                               | 16.80425-               | 960-1240            | 7.25-7.75       |
| ok botek        | 2.1733-2.1903                               | 16.80475                | 900-1240            | 1.25-1.15 Anbo  |
| Aupore Aur      | 4.125-4.128                                 | 25.5-25.67              | 1300-1427           | 8.025-8.5       |
| botek Anbors    | 4.17725-4.17775                             | 37.5-38.25              | 1435-1626.5         | 9.0-9.2         |
| Anu ok be       | 4.20725-4.20775                             | 73-74.6                 | 1645.5-             | 9.3-9.5         |
| Anbore And      | Lotek Anbore.                               | Yun rek spotel          | 1646.5              | K. Siek         |
| ik upoter A     | 6.215-6.218                                 | 74.8-75.2               | 1660-1710           | 10.6-12.7       |
| st Limit:       | 6.26775-6.26825                             | 108-121.94              | 1718.8-<br>1722.2   | 13.25-13.4      |
| St Lillit.      | 6.31175-6.31225                             | 123-138                 | 2200-2300           | 14.47-14.5      |
| Aupore Arra     | 8.291-8.294                                 | 149.9-150.05            | 2310-2390           | 15.35-16.2      |
| Anbotek Anbot   | 8.362-8.366                                 | 156.52475-<br>156.52525 | 2483.5-2500         | 17.7-21.4       |
| Anbote. And     | 8.37625-8.38675                             | 156.7-156.9             | 2690-2900           | 22.01-23.12     |
| h hotek ar      | 8.41425-8.41475                             | 162.0125-167.17         | 3260-3267           | 23.6-24.0       |
| And             | 12.29-12.293                                | 167.72-173.2            | 3332-3339           | 31.2-31.8       |
| otek unbote.    | 12.51975-12.52025                           | 240-285                 | 3345.8-3358         | 36.43-36.5      |
| , h. Joseph     | 12.57675-12.57725                           | 322-335.4               | 3600-4400           | (2) Anbor       |
| aboten And      | 13.36-13.41                                 | bi.                     | "poier Vup.         |                 |
| itek anboter    |   |                         |                     |                 |
| Aupo, A.        | <sup>1</sup> Until February 1, 1999         | 9, this restricted band | l shall be 0.490-0  | 0.510 MHz.      |
| anboter Anbo    |   | 'upo, Air               |                     |                 |
| bi.             | <sup>2</sup> Above 38.6                     |                         |                     |                 |
| Yupo, W.        |   |                         |                     |                 |
| ek abojek       | The field strength of er                    |                         |                     |                 |
| br.             | not exceed the limits s                     |                         |                     |                 |
| polek Aupo.     | 1000 MHz, compliance                        |                         |                     |                 |
| *ek ~potek      | using measurement in                        |                         |                     |                 |
| MOJ. WILL       | detector. Above 1000 I                      |                         |                     |                 |
| And             | 15.209shall be demon                        | . V. 14.01              | - PAT               | e 41 1/20       |









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| 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 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.  ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7  Above 1GHz:  a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table w rotated 360 degrees to determine the position of the highest radiation.  b. The EUT was set 3 meters away from the interference-receiving antenna which was mounted on the top of a variable-height antenna tower.  c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizonl and vertical polarizations of the antenna are set to make the measurement d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.  e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EU  | otek Anbotek   |  | where in this subpart, the emis-<br>not exceed the field strength le  |  |
|---|----------------|--|---|--|
| 0.490-1.705   24000/F(kHz)   30   1.705-30.0   30   30   30   30   30   30   88-216   150 **   3   88-216   150 **   3   216-960   200 **   3   Above 960   500   3   3   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 limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.    ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7   | Anbotek Anbote | otek Anbotek Anbo  |   | distance   |
| 1.705-30.0 30 30 30 30 30 30 30 30-88 100 ** 3 30 88-216 150 ** 3 216-960 200 ** 3 216-960 200 ** 3 3 Above 960 500 30 ** 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 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.  ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7  Above 1GHz; a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table w rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna which was mounted on the top of a variable-height antenna tower.  c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizont and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.  e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EU would be re-test |                |  | 2400/F(kHz)   | 300  |
| 30-88 88-216 150 ** 88-216 150 ** 3 216-960 200 ** 3 Above 960 500 3 ** 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 limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.  ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7  Above 1GHz: a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table w rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna which was mounted on the top of a variable-height antenna tower.  c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizont and vertical polarizations of the antenna are set to make the measurement d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.  e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EU would be re-tested one by one using peak or average method as specified and then reported in a data sheet.                                 |                |  |   | .167   |
| 88-216  |                |  |   | AU V   |
| 216-960   200 **   3   3   216-960   Above 960   500   3   3   ** 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 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.  ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7  Above 1GHz: a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table w. rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizont and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EU would be re-tested one by one using peak or average method as specified     | ote, Aug       |  |   |  |
| ** 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 limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.  **Set Method:**  ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7  Above 1GHz; a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table we rotated 360 degrees to determine the position of the highest radiation.  b. The EUT was set 3 meters away from the interference-receiving antenna which was mounted on the top of a variable-height antenna tower.  c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizont and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.  e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EU would be re-tested one by one using peak or average method as specified and then reported in a data sheet.   |                |  |   | ICA -  |
| ** 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 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.  ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7  Above 1GHz; a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table w rotated 360 degrees to determine the position of the highest radiation.  b. The EUT was set 3 meters away from the interference-receiving antenna which was mounted on the top of a variable-height antenna tower.  c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizont and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.  e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EU would be re-tested one by one using peak or average method as specified and then reported in a data sheet.                             |                | 124  |   |  |
| 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 limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.  ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7  Above 1GHz:  a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table we rotated 360 degrees to determine the position of the highest radiation.  b. The EUT was set 3 meters away from the interference-receiving antenna which was mounted on the top of a variable-height antenna tower.  c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizont and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.  e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EU would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.  | aboven Anbe    | Above 960  | 500 above 1   | AV 3   |
| ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7  Above 1GHz. a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizont and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EU would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.   |                | sections of this part, e.g In the emission table about the emission limits show employing a CISPR quay 90 kHz, 110–490 kHz ar these three bands are bounds.  | ., §§ 15.231 and 15.241.<br>ove, the tighter limit applies at t<br>wn in the above table are based<br>si-peak detector except for the<br>nd above 1000 MHz. Radiated 6  | the band edges.<br>If on measurements<br>frequency bands 9–<br>emission limits in  |
| a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table w rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizont and vertical polarizations of the antenna are set to make the measurement d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.  e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EU would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.  | est Method:    | The state of the s | tion 12.7.4, 12.7.6, 12.7.7   | tek anbotek  |
| and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.  e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.  f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EU would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.   |                | a. For above 1GHz, the meters above the groun rotated 360 degrees to 0 b. The EUT was set 3 m which was mounted on 1 c. The antenna height is ground to determine the and vertical polarization d. For each suspected e and then the antenna was   | d at a 3 meter fully-anechoic chetermine the position of the higher saway from the interference the top of a variable-height antervaried from one meter to four maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meters. | namber. The table wanted the state of the st |
| f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EU would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.   | rocedure:      | and the rotatable table v maximum reading.   | vas turned from 0 degrees to 36   | 60 degrees to find th  |
| limit specified, then testing could be stopped and the peak values of the EL would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.  |                |  |   | Ann  |
| would be re-tested one by one using peak or average method as specified and then reported in a data sheet.  |                |  | the FLIT in neak mode was 10  | . I  |
| g. Test the EUT in the lowest channel, the middle channel, the Highest  |                |  | ng could be stopped and the pe  | eak values of the EU   |
| ATT THE TOTAL CONTRACT OF THE PARTY OF THE P  |                | would be reported. Othe would be re-tested one I and then reported in a d  | ng could be stopped and the perwise the emissions that did no<br>by one using peak or average nate sheet.   | eak values of the EU<br>of have 10dB margin<br>nethod as specified   |

#### **Shenzhen Anbotek Compliance Laboratory Limited**



h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst



case.



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

#### 7.1. EUT Operation

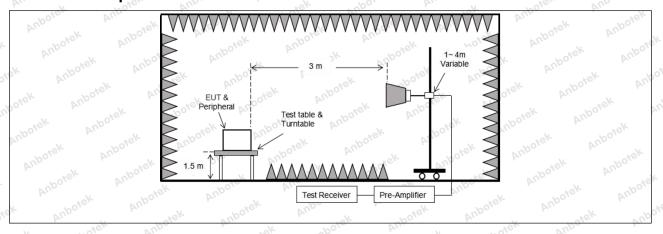
#### Operating Environment:

- 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
- 2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

#### Test mode:

- 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 4: 802.11ax mode: Keep the EUT in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

#### 7.2. Test Setup











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#### 7.3. Test Data

| Temperature: | 25.4 °C  | Humidity:  | 46 %    | Atmospheric Pressure:       | 101 kPa  |  |
|--------------|----------|------------|---------|-----------------------------|----------|--|
| Tomporataro. | p=20.1 O | Tarriarty. | 10 70 % | 7 tarrioopriorio i roccaro. | 101 Ki G |  |

#### WiFi 5.2G:

|                    | TM1 / L           |                  |                    |                   |                 |                     |          |  |  |  |  |
|--------------------|-------------------|------------------|--------------------|-------------------|-----------------|---------------------|----------|--|--|--|--|
| Frequency (MHz)    | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit (dB) | Antenna<br>Pol.     | Detector |  |  |  |  |
| 5150.00            | 36.89             | 15.99            | 52.88              | 68.20             | -15.32          | nbotek H Ar         | Peak     |  |  |  |  |
| 5150.00            | 38.95             | 15.99            | 54.94              | 68.20             | -13.26          | Aupo &              | Peak     |  |  |  |  |
| 5150.00            | 26.85             | 15.99            | 42.84              | 54.00             | -11.16          | "HP, tek            | AVG      |  |  |  |  |
| 5150.00            | 28.88             | 15.99            | 44.87              | 54.00             | -9.13           | V <sub>nbotek</sub> | AVG      |  |  |  |  |
|                    | 100               |                  | TM1                | I / <b>H</b>      |                 |                     |          |  |  |  |  |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit (dB) | Antenna<br>Pol.     | Detector |  |  |  |  |
| 5250.00            | 37.36             | 16.43            | 53.79              | 68.20             | -14.41          | nbot H              | Peak     |  |  |  |  |
| 5250.00            | 40.25             | 16.43            | 56.68              | 68.20             | -11.52          | Viek                | Peak     |  |  |  |  |
| 5250.00            | 28.65             | 16.43            | 45.08              | 54.00             | -8.92           | Hotek               | AVG      |  |  |  |  |
| 5250.00            | 29.58             | 16.43            | 46.01              | 54.00             | -7.99           | V                   | AVG      |  |  |  |  |

#### Remark:

- 1. Result=Reading + Factor
- 2. During the test, pre-scan ANT1 and ANT2 modes, and only the worst case (ANT1) is recorded in the report.

| V 0 2              |                   | ~0.              | N.                 | 750               | V U P.                                       |                              | 70.      |  |  |  |  |
|--------------------|-------------------|------------------|--------------------|-------------------|--|------------------------------|----------|--|--|--|--|
|                    | TM2 / L           |                  |                    |                   |  |                              |          |  |  |  |  |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit<br>(dB)                           | Antenna<br>Pol.              | Detector |  |  |  |  |
| 5150.00            | 35.87             | 15.99            | 51.86              | 68.20             | -16.34 · · · · · · · · · · · · · · · · · · · | H                            | Peak No  |  |  |  |  |
| 5150.00            | 37.24             | 15.99            | 53.23 And          | 68.20             | 14.97  | ooter Aur                    | Peak     |  |  |  |  |
| 5150.00            | 26.59             | 15.99            | 42.58              | 54.00             | -11.42                                       | Anbotel H                    | AVG      |  |  |  |  |
| 5150.00            | 27.59             | 15.99            | 43.58              | 54.00             | -10.42                                       | AUP Sight                    | AVG      |  |  |  |  |
|                    |                   |                  | TM2                | 2 / H             |  |                              |          |  |  |  |  |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit (dB)                              | Antenna<br>Pol.              | Detector |  |  |  |  |
| 5250.00            | 37.68             | 16.43            | 54.11 Prob         | 68.20             | 14.09  | H Priv                       | Peak     |  |  |  |  |
| 5250.00            | 38.73             | 16.43            | 55.16              | 68.20             | -13.04                                       | nbotek P                     | Peak     |  |  |  |  |
| 5250.00            | 27.70             | 16.43            | 44.13              | 54.00             | -9.87  | <sub>b</sub> oH <sup>N</sup> | AVG      |  |  |  |  |
| 5250.00            | 29.13             | 16.43            | 45.56              | 54.00             | -8.44  | Notek                        | AVG      |  |  |  |  |
| 710                | VU-               | -/0-             | -100               | A                 | 0/10   | 000                          | - OK     |  |  |  |  |

Remark: 1. Result=Reading + Factor

2. During the test, pre-scan SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.









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| O.L. VILLE         |                   | 246k V41k        | ,                  | 100               | POLO VILLE         |                 | CASIL VI |  |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|-----------------|----------|--|
|                    |                   |                  | TM                 | 3 / L             |                    |                 |          |  |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit<br>(dB) | Antenna<br>Pol. | Detector |  |
| 5150.00            | 36.37             | 15.99            | 52.36              | 68.20             | -15.84             | AH LON          | Peak     |  |
| 5150.00            | 38.23             | 15.99            | 54.22              | 68.20             | -13.98             | Nupp.           | Peak     |  |
| 5150.00            | 26.94             | 15.99            | 42.93 A            | 54.00             | 11.07 NO           | otek H Anbo     | AVG      |  |
| 5150.00            | 28.70             | 15.99            | 44.69              | 54.00             | -9.31              | nbotek V Ar     | AVG      |  |
| TM3 / H            |                   |                  |                    |                   |                    |                 |          |  |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit (dB)    | Antenna<br>Pol. | Detector |  |
| 5250.00            | 38.01             | 16.43            | 54.44              | 68.20             | -13.76             | Hup             | Peak     |  |
| 5250.00            | 36.90             | 16.43            | 53.33 NOO'         | 68.20             | -14.87             | isk A Vupo,     | Peak     |  |
| 5250.00            | 28.19             | 16.43            | 44.62              | 54.00             | -9.38              | Lotek H An      | AVG      |  |
| 5250.00            | 29.37             | 16.43            | 45.80              | 54.00             | -8.20              | Y               | AVG      |  |

Remark: 1. Result=Reading + Factor

2. During the test, pre-scan SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.

|                    |                   | " upo.           |                    |                   |                        |                 | 3k "po.  |
|--------------------|-------------------|------------------|--------------------|-------------------|------------------------|-----------------|----------|
|                    |                   |                  | TM4                | 4 / L             |                        |                 |          |
| Frequency (MHz)    | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit<br>(dB)     | Antenna<br>Pol. | Detector |
| 5150.00            | 36.83             | 15.99            | 52.82              | 68.20             | -15.38                 | Anbo. H         | Peak     |
| 5150.00            | 38.56             | 15.99            | 54.55              | 68.20             | -13.65                 | Audo,           | Peak     |
| 5150.00            | 26.50             | 15.99            | 42.49              | 54.00             | -11.51                 | 1H)             | AVG      |
| 5150.00            | 28.66             | 15.99            | 44.65              | 54.00             | -9.35 <sub>100</sub> 1 | Sk Avpour       | AVG      |
|                    |                   |                  | TM4                | 4 / H             |                        |                 |          |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result (dBuV/m)    | Limit<br>(dBuV/m) | Over limit (dB)        | Antenna<br>Pol. | Detector |
| 5250.00            | 37.82             | 16.43            | 54.25              | 68.20             | -13.95                 | AnbH ak         | Peak     |
| 5250.00            | 38.08             | 16.43            | 54.51              | 68.20             | -13.69                 | AV O'           | Peak     |
| 5250.00            | 27.72             | 16.43            | 44.15              | 54.00             | -9.85                  | K Hupoter       | AVG      |
| 5250.00            | 28.25             | 16.43            | 44.68              | 54.00             | -9.32                  | .ek V .000      | AVG      |

Remark: 1. Result=Reading + Factor

2. During the test, pre-scan SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.







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| PU VI             | V  | Olek V  | Upo Pr  | You   | *p070   | 74   |
|-------------------|--|---|---|---|---|--|
|                   |  | TM <sup>2</sup>   | 1 / L   |   |   |  |
| Reading<br>(dBuV) | Factor<br>(dB/m)   | Result<br>(dBuV/m)  | Limit<br>(dBuV/m)   | Over limit<br>(dB)  | Antenna<br>Pol.   | Detector   |
| 38.27             | 16.37  | 54.64   | 68.20   | -13.56  | k Hupote  | Peak   |
| 39.69             | 16.37  | 56.06   | 68.20   | -12.14  | otek V Anb  | Peak   |
| 29.10             | 16.70 And  | 45.80   | 54.00   | -8.20   | H   | AVG  |
| 30.23             | 16.70  | 46.93   | 54.00   | -7.07   | N. O. V.  | AVG  |
|                   | ,  | TM1   | I / H   |   | ,   |  |
| Reading<br>(dBuV) | Factor<br>(dB/m)   | Result<br>(dBuV/m)  | Limit<br>(dBuV/m)   | Over limit (dB)   | Antenna<br>Pol.   | Detector   |
| 39.23             | 17.21  | 56.44   | 68.20   | -11.76  | tek H Anbo  | Peak   |
| 39.62             | otek 17.21 pabe  | 56.83   | 68.20   | -11.37 ·····  | vel√ V  | Peak   |
| 29.20             |  | 46.41   | 54.00   | 7.59  | No. H   | AVG  |
| 29.20             | 17.21  | 46.41   | 54.00   | -7.59   | Anbord  | AVG  |
|                   | (dBuV) 38.27 39.69 29.10 30.23  Reading (dBuV) 39.23 39.62 29.20 | (dBuV)     (dB/m)       38.27     16.37       39.69     16.37       29.10     16.70       30.23     16.70       Reading (dBuV) (dB/m)       39.23     17.21       39.62     17.21       29.20     17.21 | Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           38.27         16.37         54.64           39.69         16.37         56.06           29.10         16.70         45.80           30.23         16.70         46.93           TM1           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           39.23         17.21         56.44           39.62         17.21         56.83           29.20         17.21         46.41 | (dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)           38.27         16.37         54.64         68.20           39.69         16.37         56.06         68.20           29.10         16.70         45.80         54.00           30.23         16.70         46.93         54.00           TM1 / H           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)           39.23         17.21         56.44         68.20           39.62         17.21         56.83         68.20           29.20         17.21         46.41         54.00 | Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Over limit (dB)           38.27         16.37         54.64         68.20         -13.56           39.69         16.37         56.06         68.20         -12.14           29.10         16.70         45.80         54.00         -8.20           30.23         16.70         46.93         54.00         -7.07           TM1 / H           Reading (dBuV)         Result (dBuV/m)         Limit (dBuV/m)         Over limit (dB)           39.23         17.21         56.44         68.20         -11.76           39.62         17.21         56.83         68.20         -11.37           29.20         17.21         46.41         54.00         -7.59 | Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Over limit (dB)         Antenna Pol.           38.27         16.37         54.64         68.20         -13.56         H           39.69         16.37         56.06         68.20         -12.14         V           29.10         16.70         45.80         54.00         -8.20         H           30.23         16.70         46.93         54.00         -7.07         V           TM1 / H           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Over limit (dB)         Antenna Pol.           39.23         17.21         56.44         68.20         -11.76         H           39.62         17.21         56.83         68.20         -11.37         V           29.20         17.21         46.41         54.00         -7.59         H |

Remark: 1. Result=Reading + Factor 2. During the test, pre-scan ANT1 and ANT2 modes, and only the worst case (ANT1) is recorded in the report.

| ~K 201             | $\nabla_{I_{I_{I_{I_{I_{I_{I_{I_{I_{I_{I_{I_{I_$ |                  | 18 19 19 19 19 19 19 19 19 19 19 19 19 19 |                             | ~k ~o.             | V. VIII               |          |
|--------------------|--|------------------|---|-----------------------------|--------------------|-----------------------|----------|
|                    |  |                  | TM2                                       | 2 / L                       |                    |                       |          |
| Frequency<br>(MHz) | Reading<br>(dBuV)                                | Factor<br>(dB/m) | Result<br>(dBuV/m)                        | Limit<br>(dBuV/m)           | Over limit<br>(dB) | Antenna<br>Pol.       | Detector |
| 5725.00            | 38.25  | 17.05            | 55.30                                     | 68.20                       | -12.90             | ANDHER                | Peak     |
| 5725.00            | 38.86  | 17.05            | 55.91                                     | 68.20                       | -12.29             | Morek                 | Peak     |
| 5725.00            | 27.65  | 17.05            | 44.70                                     | 54.00                       | -9.30              | ek H <sub>nbote</sub> | AVG      |
| 5725.00            | 28.21  | 17.05 nbox       | 45.26                                     | otek 54.00 <sub>pn</sub> bo | -8.74              | siek V nb             | AVG M    |
|                    |  |                  | TM2                                       | 2 / H                       |                    |                       |          |
| Frequency (MHz)    | Reading<br>(dBuV)                                | Factor<br>(dB/m) | Result<br>(dBuV/m)                        | Limit<br>(dBuV/m)           | Over limit<br>(dB) | Antenna<br>Pol.       | Detector |
| 5850.00            | 37.47  | 17.21            | 54.68                                     | 68.20                       | -13.52             | Hotek                 | Peak     |
| 5850.00            | 38.06  | 17.21            | 55.27                                     | 68.20                       | -12.93             | k V poiel             | Peak     |
| 5850.00            | 27.77  | 17.21,00°        | 44.98                                     | 54.00                       | -9.02 · · · ·      | H                     | Rel AVG  |
| 5850.00            | 28.56  | 17.21            | 45.77 M                                   | 54.00                       |                    | Ofer V And            | AVG      |

Remark: 1. Result=Reading + Factor
2. During the test, pre-scan SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.



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|                    | TM3 / L           |                  |                    |                   |                 |                 |          |  |  |  |
|--------------------|-------------------|------------------|--------------------|-------------------|-----------------|-----------------|----------|--|--|--|
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit (dB) | Antenna<br>Pol. | Detector |  |  |  |
| 5725.00            | 37.83             | 17.05            | 54.88              | 68.20             | -13.32          | AHk             | Peak     |  |  |  |
| 5725.00            | 38.74             | 17.05            | 55.79              | 68.20             | -12.41          | Nupo,           | Peak     |  |  |  |
| 5725.00            | 27.13             | 17.05            | 44.18 AV           | 54.00             | -9.82 NO        | otek H Anbo     | AVG      |  |  |  |
| 5725.00            | 28.45             | 17.05            | 45.50              | 54.00             | -8.50           | nbotek V Ar     | AVG      |  |  |  |
|                    | TM3 / H           |                  |                    |                   |                 |                 |          |  |  |  |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit (dB) | Antenna<br>Pol. | Detector |  |  |  |
| 5850.00            | 38.19             | 17.21            | 55.40              | 68.20             | -12.80          | Hup             | Peak     |  |  |  |
| 5850.00            | 38.55             | 17.21            | 55.76              | 68.20             | -12.44          | yek A Vupo,     | Peak     |  |  |  |
| 5850.00            | 28.37             | 17.21            | 45.58              | 54.00             | -8.42           | Lotek H An      | AVG AN   |  |  |  |
| 5850.00            | 29.44             | 17.21            | 46.65              | 54.00             | 7.35            | Y               | AVG      |  |  |  |

Remark: 1. Result=Reading + Factor

2. During the test, pre-scan SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.

| AUD                | Yes               | "po,             | bu.                | -k hote           | AUD                |                       | ek "po,  |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|-----------------------|----------|
|                    |                   |                  | TM4                | 4 / L             |                    |                       |          |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit<br>(dB) | Antenna<br>Pol.       | Detector |
| 5725.00            | 37.46             | 17.05            | 54.51              | 68.20             | -13.69             | Anbo. H               | Peak     |
| 5725.00            | 37.57             | 17.05            | 54.62              | 68.20             | -13.58             | Aupo,                 | Peak     |
| 5725.00            | 28.35             | 17.05            | 45.40              | 54.00             | -8.60              | M <sub>poot</sub>     | AVG      |
| 5725.00            | 29.20             | 17.05            | 46.25              | 54.00             | -7.75 bot          | ok VAnbor             | AVG      |
|                    |                   |                  | TM4                | 4 / H             |                    |                       |          |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result (dBuV/m)    | Limit<br>(dBuV/m) | Over limit (dB)    | Antenna<br>Pol.       | Detector |
| 5850.00            | 38.20             | 17.21            | 55.41              | 68.20             | -12.79             | Pup H                 | Peak     |
| 5850.00            | 39.06             | 17.21            | 56.27              | 68.20             | -11.93             | NO.                   | Peak     |
| 5850.00            | 28.05             | 17.21            | 45.26              | 54.00             | -8.74              | K H <sub>unboie</sub> | AVG      |
| 5850.00            | 29.16             | 17.21            | 46.37              | 54.00             | -7.63              | ek V                  | AVG      |

Remark: 1. Result=Reading + Factor

2. During the test, pre-scan SISO and MIMO modes, and only the worst case (MIMO) is recorded in the report.







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### 8. Undesirable emission limits (below 1GHz)

| Test Requirement:   | 47 CFR Part 15.407(b)(9)  | And aborek Anb  | or Ali   |
|---|---|---|--|
| Anbotek Anbotek   | Unwanted emissions below strength limits set forth in §   | 1 GHz must comply with the ge<br>15.209.  | eneral field   |
| tek Anbotek An  |   | ere in this subpart, the emissions<br>t exceed the field strength levels  |  |
|   | Frequency (MHz)   | Field strength (microvolts/meter)   | Measurement distance (meters)  |
|   | 0.009-0.490<br>0.490-1.705  | 2400/F(kHz)<br>24000/F(kHz)   | 300  |
| Test Limit:   | 1.705-30.0<br>30-88   | 30<br>100 **<br>150 **  | 30 3   |
| botek Anbotek   | 88-216<br>216-960<br>Above 960  | 200 **  | 3  |
|   | ** Except as provided in pa<br>intentional radiators operat<br>frequency bands 54-72 MH   | ragraph (g), fundamental emissi<br>ing under this section shall not b<br>lz, 76-88 MHz, 174-216 MHz or<br>these frequency bands is permitt  | ons from<br>e located in the<br>470-806 MHz.   |
|   | In the emission table above<br>The emission limits shown<br>employing a CISPR quasi-<br>90 kHz, 110–490 kHz and a   | e, the tighter limit applies at the bein the above table are based on peak detector except for the frequency above 1000 MHz. Radiated emised on measurements employing  | measurements<br>uency bands 9–<br>sion limits in   |
| Test Method:  | ANSI C63.10-2020, section   | 12.7.4, 12.7.5  | And tek  |
| Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek | meters above the ground a was rotated 360 degrees to b. The EUT was set 3 or 10 antenna, which was mount c. The antenna height is va ground to determine the materials. | T was placed on the top of a rota<br>t a 3 meter semi-anechoic cham<br>determine the position of the hi<br>meters away from the interference<br>ed on the top of a variable-heigh<br>wried from one meter to four meter<br>aximum value of the field strength | ber. The table<br>ghest radiation.<br>nce-receiving<br>it antenna tower.<br>ers above the<br>h. Both horizonta |
| Procedure:  | d. For each suspected emis<br>and then the antenna was<br>test frequency of below 300   | ssion, the EUT was arranged to<br>tuned to heights from 1 meter to<br>MHz, the antenna was tuned to he<br>turned from 0 degrees to 360 de   | its worst case<br>4 meters (for the<br>neights 1 meter)  |
| Anbotek Anbotek  Anbotek Anbotek  | e. The test-receiver system Bandwidth with Maximum I f. If the emission level of the limit specified, then testing  | n was set to Peak Detect Function<br>Hold Mode.<br>The EUT in peak mode was 10dB I<br>Could be stopped and the peak vise the emissions that did not ha  | ower than the<br>values of the EU  |









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

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

#### Above 1GHz:

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









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below the limit need not be reported.

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

#### 8.1. EUT Operation

|  | 70,  | 100  | - 200  | Prince Control  |   | 200                           |
|--|--|--|--|---|---|-------------------------------|
| Operating Envi                                 | ronment:   | orek Anbore  |  |   |   |                               |
| otek Anbotek<br>Notek Anbotek<br>Anbotek Anbot | 1: 802.11a mode<br>modulation type.<br>the worst case. 0<br>2: 802.11n mode<br>modulation type.<br>rate @ MCS0 is<br>report. | All data rates hat Only the data of well the EUT All bandwidth all | as been tested<br>worst case is re<br>in continuously<br>nd data rates h | and found the<br>ecorded in the<br>transmitting r<br>as been tested | data rate @<br>report.<br>node with 80<br>d and found t | 6Mbps is<br>2.11n<br>the data |
| Test mode:                                     | 3: 802.11ac mod<br>modulation type.<br>rate @ MCS0 is<br>report.<br>4: 802.11ax mod  | . All bandwidth a<br>the worst case.                               | nd data rates h<br>Only the data o                                       | nas been tested<br>of worst case is                                 | d and found to<br>recorded in                           | the data<br>the               |

modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the

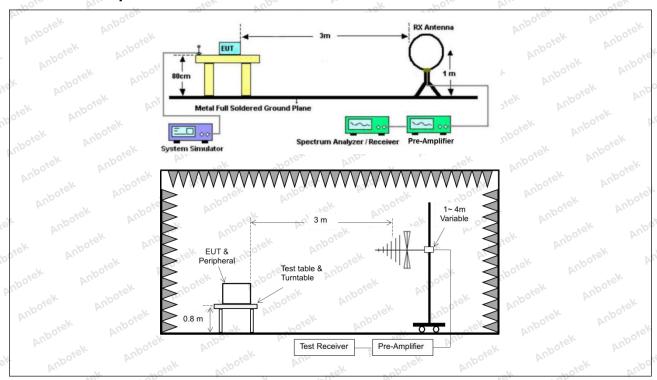
report.





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#### 8.2. Test Setup





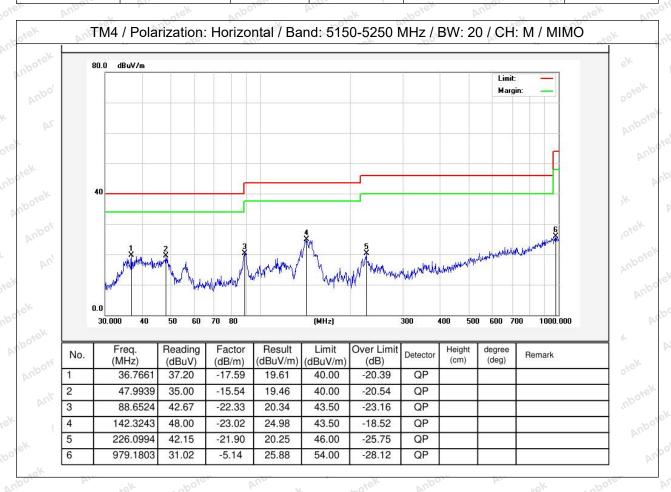


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#### 8.3. Test Data

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: | 22.5 °C | DUP. | Humidity:     | 48 %  | Atmos    | pheric Pres   | sure:  | 101 kPa     |
|-----|--------------|---------|------|---------------|-------|----------|---------------|--------|-------------|
| - 1 | romporataro. |         |      | i iditiidity. | 10.70 | 7 (11100 | priorio i goc | oui o. | p-101 Ki Gi |

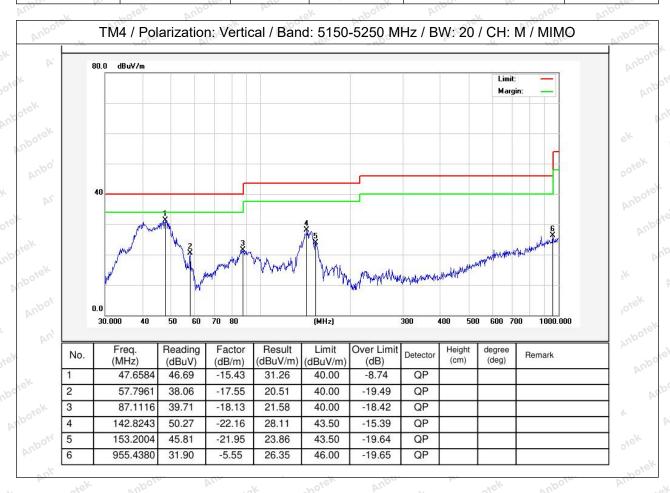






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Temperature: 22.5 °C Humidity: 48 % Atmospheric Pressure: 101 kPa

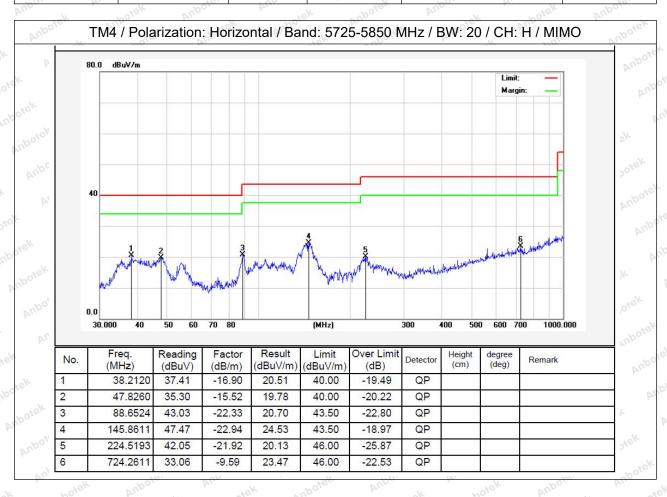






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Temperature: 22.5 °C Humidity: 48 % Atmospheric Pressure: 101 kPa

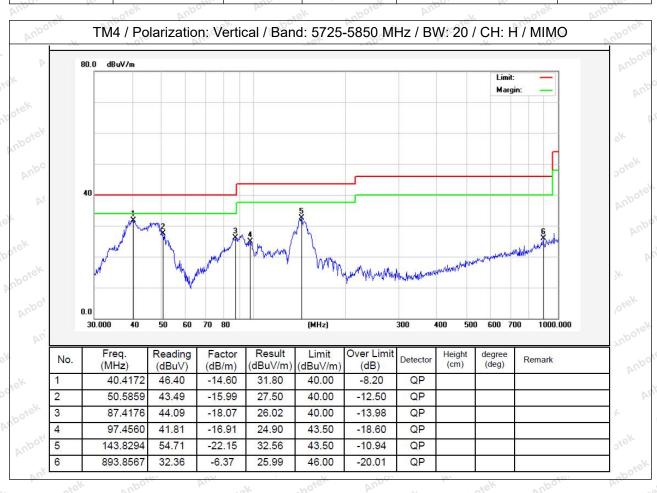






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Temperature: 22.5 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.









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### 9. Undesirable emission limits (above 1GHz)

| 47 CFR Part 15.407(b) 47 CFR Part 15.407(b) For transmitters opera of the 5.15-5.35 GHz b For transmitters opera All emissions shall be above or below the ba above or below the ba above or below the ba adde increasing linear below the band edge, ncreasing linearly to a MHz 0.090-0.110  10.495-0.505  | ting in the 5.15-5.25 cand shall not exceed ting solely in the 5.72 limited to a level of -: nd edge increasing lind edge, and from 25 ly to a level of 15.6 dland from 5 MHz above   | d an e.i.r.p. of -2<br>25-5.850 GHz ba<br>27 dBm/MHz at<br>nearly to 10 dBm<br>5 MHz above or l<br>Bm/MHz at 5 MH<br>ve or below the b<br>z at the band ed   | 7 dBm/MHz. nd: 75 MHz or mo n/MHz at 25 M below the band dz above or band edge  |
|--|---|--|---|
| For transmitters opera of the 5.15-5.35 GHz to fine from the first opera All emissions shall be above or below the bacabove or below the bacabove increasing linearly to a MHz  0.090-0.110  | ting in the 5.15-5.25 cand shall not exceed ting solely in the 5.72 limited to a level of -: nd edge increasing lind edge, and from 25 ly to a level of 15.6 dl and from 5 MHz about level of 27 dBm/MHz  | d an e.i.r.p. of -2<br>25-5.850 GHz ba<br>27 dBm/MHz at<br>nearly to 10 dBm<br>5 MHz above or l<br>Bm/MHz at 5 MH<br>ve or below the b<br>z at the band ed   | 7 dBm/MHz. nd: 75 MHz or mo n/MHz at 25 M below the band dz above or band edge  |
| For transmitters opera All emissions shall be above or below the basedge increasing linear pelow the band edge, ncreasing linearly to a MHz  | ting solely in the 5.72 limited to a level of -; nd edge increasing lind edge, and from 25 ly to a level of 15.6 dl and from 5 MHz about level of 27 dBm/MHz  | d an e.i.r.p. of -2<br>25-5.850 GHz ba<br>27 dBm/MHz at<br>nearly to 10 dBm<br>5 MHz above or l<br>Bm/MHz at 5 MH<br>ve or below the b<br>z at the band ed   | 7 dBm/MHz. nd: 75 MHz or mo n/MHz at 25 M below the band dz above or band edge  |
| For transmitters opera All emissions shall be above or below the basedge increasing linear pelow the band edge, ncreasing linearly to a MHz  | ting solely in the 5.72 limited to a level of -: nd edge increasing li nd edge, and from 25 ly to a level of 15.6 dl and from 5 MHz abov level of 27 dBm/MHz MHz  | 25-5.850 GHz ba<br>27 dBm/MHz at<br>nearly to 10 dBm<br>5 MHz above or l<br>Bm/MHz at 5 MH<br>ve or below the b<br>z at the band edo   | nd:<br>75 MHz or mo<br>n/MHz at 25 M<br>below the band<br>dz above or<br>pand edge  |
| All emissions shall be above or below the basebove or below the basedge increasing linear below the band edge, ncreasing linearly to a MHz   | limited to a level of -; nd edge increasing li nd edge, and from 25 ly to a level of 15.6 dl and from 5 MHz abov level of 27 dBm/MHz MHz  | 27 dBm/MHz at a nearly to 10 dBm of the first to 10 dBm of the first to 10 dBm/MHz at 5 MH or below the because the band edges   | 75 MHz or mo<br>n/MHz at 25 M<br>below the band<br>dz above or<br>band edge   |
| All emissions shall be above or below the basebove or below the basedge increasing linear below the band edge, ncreasing linearly to a MHz   | limited to a level of -; nd edge increasing li nd edge, and from 25 ly to a level of 15.6 dl and from 5 MHz abov level of 27 dBm/MHz MHz  | 27 dBm/MHz at a nearly to 10 dBm of the first to 10 dBm of the first to 10 dBm/MHz at 5 MH or below the because the band edges   | 75 MHz or mo<br>n/MHz at 25 M<br>below the band<br>dz above or<br>band edge   |
| above or below the bath above or below the bath above or below the bath above increasing linearly to a minus of the bath above increasing linearly i | nd edge increasing li<br>nd edge, and from 25<br>ly to a level of 15.6 dl<br>and from 5 MHz abov<br>level of 27 dBm/MH:<br>MHz  | nearly to 10 dBm 5 MHz above or I Bm/MHz at 5 MH ve or below the b z at the band edo   | n/MHz at 25 M<br>below the band<br>dz above or<br>band edge   |
| above or below the ba<br>edge increasing linear<br>below the band edge,<br>ncreasing linearly to a<br>MHz<br>0.090-0.110   | nd edge, and from 25<br>ly to a level of 15.6 dl<br>and from 5 MHz abov<br>level of 27 dBm/MH:<br>MHz   | 5 MHz above or I<br>Bm/MHz at 5 MH<br>ve or below the b<br>z at the band edo   | below the band<br>Iz above or<br>band edge  |
| edge increasing linear<br>below the band edge,<br>ncreasing linearly to a<br>MHz<br>0.090-0.110  | ly to a level of 15.6 d<br>and from 5 MHz abov<br>level of 27 dBm/MH:<br>MHz  | Bm/MHz at 5 MH<br>ve or below the b<br>z at the band edo   | dz above or<br>band edge  |
| pelow the band edge,<br>ncreasing linearly to a<br>MHz<br>0.090-0.110  | and from 5 MHz abov<br>level of 27 dBm/MH:<br>MHz   | ve or below the because the because the band edge  | oand edge   |
| ncreasing linearly to a MHz 0.090-0.110  | level of 27 dBm/MHz   | z at the band ed   |   |
| MHz<br>0.090-0.110   | MHz   |  | JEV.  |
| 0.090-0.110  | 177.  |  |   |
| V  |   | MHz  | GHz   |
| 10.495-0.505   | V-U'  | 399.9-410  | 4.5-5.15  |
|  | 16.69475-   | 608-614  | 5.35-5.46   |
| 2.1735-2.1905  | 16.69525<br>16.80425-   | 960-1240   | 7.25-7.75   |
| 2.1735-2.1905  | 16.80475  | 900-1240   | 1,20-1.10   |
| 4.125-4.128  | 25.5-25.67  | 1300-1427  | 8.025-8.5   |
| 4.17725-4.17775  | 37.5-38.25  | 1435-1626.5  | 9.0-9.2   |
| 4.20725-4.20775  | 73-74.6   | 1645.5-  | 9.3-9.5   |
| 4.20120-4.20110  | Anio-14.0 p. hotel  | 1646.5   | 0,0=0.0   |
| 6.215-6.218  | 74.8-75.2   | 1660-1710  | 10.6-12.7   |
| 6.26775-6.26825  | 108-121.94  | 1718.8-<br>1722.2  | 13.25-13.4  |
| 6.31175-6.31225  | 123-138   | 40   | 14.47-14.5  |
| 8.291-8.294  | 149.9-150.05  | 2310-2390  | 15.35-16.2  |
| 8.362-8.366  | 156.52475-<br>156.52525   | 2483.5-2500  | 17.7-21.4   |
| 8.37625-8.38675  | 156.7-156.9   | 2690-2900  | 22.01-23.12   |
| 8.41425-8.41475  | 162.0125-167.17   | 3260-3267  | 23.6-24.0   |
| 12.29-12.293   | 167.72-173.2  | 3332-3339  | 31.2-31.8   |
| 12.51975-12.52025  | 240-285   | 3345.8-3358  | 36.43-36.5  |
| 12.57675-12.57725  | 322-335.4   | 3600-4400  | (2) Mbot  |
| 13.36-13.41  | P.I.  | " upoter Aup.  |   |
| Aug ok P   | otek Anbo.  | W. Sek   | upoje. Au   |
| Until February 1, 199  | 9, this restricted band   | l shall be 0.490-0   | 0.510 MHz.  |
| L Loick  | 'upor Au  | abotek   |   |
| Above 38.6   |   |  |   |
|  |   |  |   |
|  |   |  |   |
|  |   |  |   |
|  |   |  |   |
|  |   |  |   |
| detector. Above 1000   |   | n the emission lin   | nite in と   |
| 15.209shall be demon   |   |  |   |
| No   No   No   No   No   No   No   No  | 6.26775-6.26825 6.31175-6.31225 8.291-8.294 8.362-8.366 8.37625-8.38675 8.41425-8.41475 12.29-12.293 12.51975-12.52025 12.57675-12.57725 13.36-13.41 Until February 1, 1999 Above 38.6 The field strength of enot exceed the limits so one will be exceed the limits so | 6.26775-6.26825 108-121.94  6.31175-6.31225 123-138  8.291-8.294 149.9-150.05  8.362-8.366 156.52475- 156.52525  8.37625-8.38675 156.7-156.9  8.41425-8.41475 162.0125-167.17  12.29-12.293 167.72-173.2  12.51975-12.52025 240-285  12.57675-12.57725 322-335.4  13.36-13.41  Until February 1, 1999, this restricted band had been accorded as a second | 6.215-6.218         74.8-75.2         1660-1710           6.26775-6.26825         108-121.94         1718.8-1722.2           6.31175-6.31225         123-138         2200-2300           8.291-8.294         149.9-150.05         2310-2390           8.362-8.366         156.52475-156.9         2483.5-2500           8.37625-8.38675         156.7-156.9         2690-2900           8.41425-8.41475         162.0125-167.17         3260-3267           12.29-12.293         167.72-173.2         3332-3339           12.51975-12.52025         240-285         3345.8-3358           12.57675-12.57725         322-335.4         3600-4400           13.36-13.41         Until February 1, 1999, this restricted band shall be 0.490-0 |









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|  | intentional radiator shall i<br>following table:   | where in this subpart, the emission of exceed the field strength leve   | els specified in the   |
|--|--|---|--|
| Anbotek Anbote   | Frequency (MHz)  | Field strength (microvolts/meter)   | Measurement distance (meters)  |
| And  | 0.009-0.490  | 2400/F(kHz)   | 300  |
|  | 0.490-1.705  | 24000/F(kHz)  | 30   |
|  | 1.705-30.0   | 30  | rek 30 nabote  |
| otek Anbe  | 30-88  | 100 **  | 3 Sotek  |
|  | 88-216   | 150 **  | 100 3 AM   |
|  | 216-960  | 200 **  | 3,ek noote   |
|  | Above 960  | 500   | 3  |
|  | The emission limits show employing a CISPR quas 90 kHz, 110–490 kHz and  | ove, the tighter limit applies at the<br>rn in the above table are based on<br>si-peak detector except for the from<br>d above 1000 MHz. Radiated en<br>sed on measurements employing   | on measurements<br>equency bands 9–<br>nission limits in   |
| est Method:  | ANSI C63.10-2020, secti  | on 12.7.4, 12.7.6, 12.7.7   | k aboiek   |
|  | meters above the ground rotated 360 degrees to do b. The EUT was set 3 me which was mounted on the c. The antenna height is ground to determine the and vertical polarizations d. For each suspected er    | EUT was placed on the top of a rat a 3 meter fully-anechoic charactermine the position of the higheters away from the interference top of a variable-height antenivaried from one meter to four memaximum value of the field strent of the antenna are set to make mission, the EUT was arranged to | mber. The table wa<br>est radiation.<br>-receiving antenna<br>na tower.<br>eters above the<br>igth. Both horizont                                    |
| Procedure:   | test frequency of below 3 and the rotatable table w maximum reading.   | s tuned to heights from 1 meter :0MHz, the antenna was tuned to as turned from 0 degrees to 360   | o its worst case<br>to 4 meters (for the<br>o heights 1 meter)<br>degrees to find th   |
| Procedure:  Anborek  Anborek  Anborek  Anborek  Anborek  Anborek | test frequency of below 3 and the rotatable table we maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of limit specified, then testin would be reported. Other | s tuned to heights from 1 meter 10MHz, the antenna was tuned to as turned from 0 degrees to 360 cm was set to Peak Detect Function Hold Mode. The EUT in peak mode was 10de ag could be stopped and the peak wise the emissions that did not by one using peak or average me                        | to its worst case to 4 meters (for the cheights 1 meter) degrees to find the tion and Specified B lower than the k values of the EU nave 10dB margin |

#### **Shenzhen Anbotek Compliance Laboratory Limited**



h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst



case.



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

#### 9.1. EUT Operation

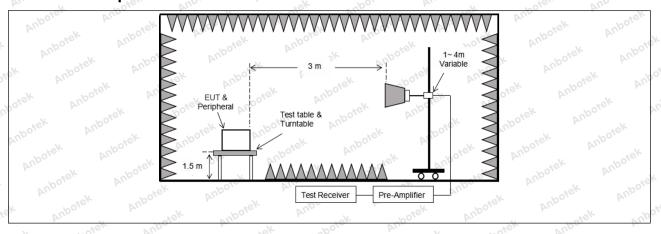
#### Operating Environment:

- 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
- 2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

#### Test mode:

- 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
- 4: 802.11ax mode: Keep the EUT in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

#### 9.2. Test Setup











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### 9.3. Test Data

| Temperature: | 22.5 °C | Humidity: 48 | % Atmo | spheric Pressure: | 101 kPa |
|--------------|---------|--------------|--------|-------------------|---------|
| WiFi 5 2G:   | de les  | De K         | - Ole  | VUP               | y 200.  |

#### WiFi 5.2G:

| WIFI 5.2G:         | Pole.             | VU.              | -tek               | rupo.             | N. OK              | hote                  | Aric                    |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|-----------------------|-------------------------|
|                    |                   |                  | TM4 /              | CH: L             |                    |                       |                         |
| Frequency (MHz)    | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit<br>(dB) | Antenna<br>Pol.       | Detector                |
| 10360.00           | 31.41             | 23.81            | 55.22              | 68.20             | -12.98             | V                     | Peak                    |
| 15540.00           | 32.70             | 28.68            | 61.38              | 68.20             | -6.82              | Nupo. A               | Peak                    |
| 10360.00           | 31.73             | 23.81            | 55.54              | 68.20             | -12.66             | PupoH                 | Peak                    |
| 15540.00           | 32.81             | 28.68            | 61.49              | 68.20             | -6.71              | or Hoter              | Peak                    |
| 10360.00           | 20.747            | 23.81            | 44.56              | 54.00             | -9.44              | Vootek                | AVG                     |
| 15540.00           | 21.780            | 28.68            | 50.46              | 54.00             | -3.54              | V V                   | AVG                     |
| 10360.00           | 20.918            | 23.81            | 44.73              | 54.00             | otek -9.27 And     | H Pur                 | AVG                     |
| 15540.00           | 21.514            | 28.68            | 50.19              | 54.00             | -3.81              | nbotek H A            | AVG                     |
|                    |                   |                  | TM4 /              | CH: M             |                    |                       |                         |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit (dB)    | Antenna<br>Pol.       | Detector                |
| 10400.00           | 30.77             | 23.81            | 54.58              | 68.20             | -13.62             | Kupose                | Peak                    |
| 15600.00           | 32.23             | 29.13            | 61.36              | 68.20             | -6.84              | ek V nboi             | Peak                    |
| 10400.00           | 31.22             | 23.81            | 55.03              | 68.20             | -13.17             | , H                   | o <sup>teV</sup> Peak ⋈ |
| 15600.00           | 32.33             | 29.13            | 61.46              | 68.20             | -6.74              | h H                   | Peak                    |
| 10400.00           | 21.017            | 23.81            | 44.83              | 54.00             | -9.17              | Anbore                | AVG                     |
| 15600.00           | 21.900            | 29.13            | 51.03              | 54.00             | -2.97              | NUPA SK               | AVG                     |
| 10400.00           | 20.908            | 23.81            | 44.72              | 54.00             | -9.28              | Hotek                 | AVG                     |
| 15600.00           | 21.594            | 29.13            | 50.72              | 54.00             | -3.28              | H more                | AVG                     |
|                    |                   |                  | TM4 /              | CH: H             |                    |                       |                         |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit<br>(dB) | Antenna<br>Pol.       | Detector                |
| 10480.00           | 30.34             | 23.80            | 54.14              | 68.20             | -14.06             | Aup. A                | Peak                    |
| 15720.00           | 31.71             | 30.03            | 61.74              | 68.20             | -6.46              | Anbo                  | Peak                    |
| 10480.00           | 30.86             | 23.80            | 54.66              | 68.20             | -13.54             | Hoores                | Peak                    |
| 15720.00           | 31.24             | 30.03            | 61.27              | 68.20             | -6.93              | ek H <sub>abote</sub> | Peak                    |
| 10480.00           | 19.69             | 23.80            | 43.49              | 54.00             | -10.51             | V V                   | AVG M                   |
| 15720.00           | 20.66             | 30.03            | 50.69              | 54.00             | otel -3.31 pm      | V                     | AVG                     |
| 10480.00           | 20.12             | 23.80            | 43.92              | 54.00             | -10.08             | Anbote H              | AVG                     |
| 15720.00           | 20.38             | 30.03            | 50.41              | 54.00             | -3.59              | _bdf <sup>™</sup>     | AVG                     |

#### Remark:

- 1. Result =Reading + Factor
- During the test, pre-scan the all modulation, only the worst case(802.11ax(HEW20) MIMO) is recorded in the report.









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#### WiFi 5.8G:

| WiFi 5.8G:         | ojek .            | rupo.            | ak .               | Pole.             | AUL                | ntek.                 | rupo.    |
|--------------------|-------------------|------------------|--------------------|-------------------|--------------------|-----------------------|----------|
|                    |                   |                  | TM4 /              | CH: L             |                    |                       |          |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit (dB)    | Antenna<br>Pol.       | Detector |
| 11490.000          | 28.58             | 23.36            | 51.94              | 68.20             | -16.26             | V V                   | Peak     |
| 17235.000          | 29.98             | 31.97            | 61.95              | 68.20             | otel -6.25 And     | V Am                  | Peak     |
| 11490.000          | 29.11             | 23.36            | 52.47              | 68.20             | -15.73             | nboten H A            | Peak     |
| 17235.000          | 30.18             | 31.97            | 62.15              | 68.20             | -6.05              | , both                | Peak     |
| 11490.000          | 17.93             | 23.36            | 41.29              | 54.00             | -12.71             | Votek                 | AVG      |
| 17235.000          | 18.74             | 31.97            | 50.71              | 54.00             | -3.29              | AND YEK               | AVG      |
| 11490.000          | 18.14             | 23.36            | 41.50              | 54.00             | -12.50             | H <sub>Upo</sub>      | AVG      |
| 17235.000          | 18.11             | 31.97            | 50.08              | 54.00             | -3.92              | itek H Anbo           | AVG      |
|                    |                   |                  | TM4 /              | CH: M             |                    |                       |          |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit (dB)    | Antenna<br>Pol.       | Detector |
| 11570.000          | 29.16             | 23.42            | 52.58              | 68.20             | -15.62             | VUN. Nice             | Peak     |
| 17355.000          | 29.86             | 32.18            | 62.04              | 68.20             | -6.16              | Votek                 | Peak     |
| 11570.000          | 29.31             | 23.42            | 52.73              | 68.20             | -15.47             | H                     | Peak     |
| 17355.000          | 30.27             | 32.18            | 62.45              | 68.20             | -5.75 Anbo         | H Pup                 | Peak     |
| 11570.000          | 19.197            | 23.42            | 42.62              | 54.00             | -11.38             | botek V An            | AVG      |
| 17355.000          | 19.060            | 32.18            | 51.24              | 54.00             | -2.76              | Voront V              | AVG      |
| 11570.000          | 19.128            | 23.42            | 42.55              | 54.00             | -11.45             | Hek                   | AVG      |
| 17355.000          | 18.494            | 32.18            | 50.67              | 54.00             | -3.33              | AND HER               | AVG      |
|                    |                   |                  | TM4 /              | CH: H             |                    |                       |          |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Over limit<br>(dB) | Antenna<br>Pol.       | Detector |
| 11650.000          | 28.67             | 23.49            | 52.16              | 68.20             | -16.04             | DO. A D               | Peak     |
| 17475.000          | 30.10             | 32.39            | 62.49              | 68.20             | -5.71              | Anborev               | Peak     |
| 11650.000          | 29.05             | 23.49            | 52.54              | 68.20             | -15.66             | ~ Hek                 | Peak     |
| 17475.000          | 29.88             | 32.39            | 62.27              | 68.20             | -5.93              | Hotek                 | Peak     |
| 11650.000          | 18.27             | 23.49            | 41.76              | 54.00             | -12.24             | V                     | AVG      |
| 17475.000          | 18.86             | 32.39            | 51.25              | 54.00             | -2.75 box          | Abupo                 | AVG      |
| 11650.000          | 18.31             | 23.49            | 41.80 M            | 54.00             | -12.20             | otek H Anb            | AVG      |
| 17475.000          | 18.46             | 32.39            | 50.85              | 54.00             | -3.15              | ωo <sup>tel</sup> Ή ο | AVG      |

#### Remark:

- 1. Result =Reading + Factor
- During the test, pre-scan the all modulation, only the worst case(802.11ax(HEW20) MIMO) is recorded in the report.









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#### APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

#### APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

#### APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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

