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# **FCC Test Report**

Applicant : D2G Group LLC

Address 81 Commerce Drive, Fall River, Massachusetts,

02720, United States

Product Name : 55 inch Digital Signage Floor Standing 2-Sided

Report Date : Jan. 31, 2024

Shenzhen Anbotek Con Anbotek



ce/Laboratory Limited









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## TEST REPORT

Applicant : D2G Group LLC

Manufacturer : Shenzhen I-Pivot Intelligent Technology Co., Ltd

Product Name : 55 inch Digital Signage Floor Standing 2-Sided

Test Model No. : DF055NLBD2

Reference Model No. : N/A

Trade Mark : Displays2go

Rated Voltage: AC 100-240V

Rating(s) : Rated Current: 1.2-2.7A Rated Frequency: 50/60Hz

Max Power Consumption:240W

47 CFR Part 15E

Test Standard(s)

ANSI C63.10-2020

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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

Date of Receipt:	Jan. 11, 2024
An Anbotek Anboten Ann Lotek Ant	
Date of Test:	Jan. 12, 2024 to Jan. 30, 2024
	Illa Liang
Prepared By:	k potek Aupoter July Whek Whotek
	(Ella Liang)
	Idward pan
Approved & Authorized Signer:	Anborot And Anborek Anbo
	(Edward Pan)

www.anbotek.com.cn





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## **Revision History**

	Report Version	Description	Issued Date
	Anbore R00 potek Ant	Original Issue.	Jan. 31, 2024
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## 1. General Information

## 1.1. Client Information

Applicant	:	D2G Group LLC
Address		81 Commerce Drive, Fall River, Massachusetts, 02720, United States
Manufacturer	:	Shenzhen I-Pivot Intelligent Technology Co., Ltd
Address	:	2nd Floor, Building 2A, Dacheng Industrial Zone, No. 357 Jihua Rd, Longgang District, Shenzhen, Guangdong, China
Factory	:	Shenzhen I-Pivot Intelligent Technology Co., Ltd
Address	:	2nd Floor, Building 2A, Dacheng Industrial Zone, No. 357 Jihua Rd, Longgang District, Shenzhen, Guangdong, China

## 1.2. Description of Device (EUT)

ak hoter p	140	Sealce (EO1)
Product Name	:	55 inch Digital Signage Floor Standing 2-Sided
Test Model No.	:	DF055NLBD2
Reference Model No.	:	N/A otek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Displays2go
Test Power Supply	:	AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/Ak doorek Anborek Anborek Anborek
RF Specification		
Operation Frequency	:	802.11a/n(HT20)/ac(VHT20)/ax(HEW20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 2A: 5260MHz to 5320MHz; U-NII Band 2C: 5500MHz to 5700MHz; U-NII Band 3: 5745MHz to 5825MHz;  802.11n(HT40)/ac(VHT40)/ax(HEW40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 2A: 5270MHz to 5310MHz; U-NII Band 2C: 5510MHz to 5670MHz; U-NII Band 3: 5755MHz to 5795MHz
Number of Channel	:	802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 4; U-NII Band 2A: 4; U-NII Band 2C: 11; U-NII Band 3: 5;  802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 2; U-NII Band 2A: 2; U-NII Band 2C: 5; U-NII Band 3: 2







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Modulation Type	:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type	:	Rod Antenna
Antenna Gain(Peak)	:	Wi-Fi 5.2G: 5.06dBi Wi-Fi 5.3G: 5.17dBi Wi-Fi 5.6G: 5.21dBi Wi-Fi 5.8G: 5.28dBi
Device Type		☐ Outdoor AP ☐ Indoor AP ☐ Point-to-point AP ☐ Client
TPC Function		☐ With TPC ☑ Without TPC
DFS Type		Slave without radar detection ☐ Slave with radar detection ☐ Master
		ation are provided by customer. Teatures description, please refer to the manufacturer's specifications or the

# Anbotek Anbotek Anbot





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#### 1.3. Auxiliary Equipment Used During Test

Title		Manufacturer	Model No.	Serial No.
	Acer Computer	Anti-acer Anbotek	N19W3	2020AJ3862
,e	AX1500 Wi-Fi 6 Router	Micronet Union Technology(Chengdu) Co., Ltd	T262-T21D (FCC ID: 2A22E-WWYLT262)	Anbotek / Anbote





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#### 1.4. Operation channel list

Operation Band: U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel Channel	Frequency (MHz)	Channel	Frequency (MHz)
36,50° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1	5180	Anbotek 38 Anbot	5190	42	5210
botek 40 Anbotek	5200	10 46 An	5230	sk Vpolen	Aups Viek
botek44 Anbr	5220	an Brek	Anbore An	potek / Anboten	And
48	5240	ek Inbotek	Vupor V	shotek / Anbot	Approview

Operation Band: U-NII Band 2A

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	tek 58 mbote	5290
56	5280	62	5310	and and	otek \Aupote
60 Mer	5300	or I hote	K Moores	Aug	hotek / Anbor
64	5320	Auport Am	otek / Aupoter	And	Anbotek/ Anb

Operation Band: U-NII Band 2C

oporation bana.	o itii bana 20				
Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel Mark	Frequency (MHz)
100	5500	102	5510	106	5530 And
104 noon	5520	Anbor 110	5550 Anbore	122	5610
nbotek 108 Anbo	5540	118	5590	tek Vupo	Borek
Anbot 112	5560	126	5630	hotek / Anbo	ek Inbotek
116	5580	134	5670	Anbotek / Anbo	otek / Anbotek
120	5600	Upotek / Vupote	ek spotek	Anboten An	orek / Anbo
124	5620	Anbotek / Anbo	ek aborek	AUDIE	And work
Jootek 128 Anbotes	5640	Anboisk Ar	bot all all all all all all all all all al	lek Yupoles	And
132	5660	Anyotek	Aupo.	potek / Anbore	K NOTEK
136	5680	tek Anbotek	Anbo Liek	upotek / Aubor	An Potek
140	5700	botek / Anbotek	Aupo	Anboret An	DOLD Y VILLE
T V	772		70.	T to the second	







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Operation Band: U-NII Band 3

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	botek 151 Anbotes	5755	155	5775
153°°°°	5765	159 M	5795	Auplien	Anboatel
botek 157 Anbote	5785	anbotak An	port / All	sk Wpotek	Anbo
Spote 161 And	5805	Anbbrek.	Anboro An	potek / Anboten	And Josek
165	5825	ek Inbotek	Vupo, 1	botek / Anbote	Aug Stek

## 1.5. Description of Test Modes

Pretest Modes	Descriptions
Wholek Whole Whole	Keep the EUT connect to AC power line and works 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.
Anbotek TM2 Anbotek	Keep the EUT connect to AC power line and works 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 Anbotek Anbotek Anbotek Anbotek Anbotek	Keep the EUT connect to AC power line and works 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 TM4, nbotek	Keep the EUT connect to AC power line and works 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.
TM5 Anbotek	Keep the EUT works in normal operating mode and connect to companion device





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#### 1.6. Measurement Uncertainty

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

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





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#### 1.7. Test Summary

Test Items	Test Modes	Status
Conducted Emission at AC power line	Mode1,2,3,4	And P ek
Duty Cycle	Mode1,2,3,4	P
Maximum conducted output power	Mode1,2,3,4	P PART
Power spectral density	Mode1,2,3,4	P
Emission bandwidth and occupied bandwidth	Mode1,2,3,4	hoot Pk
Channel Move Time, Channel Closing Transmission Time	Mode5	Anbor Prek
DFS Detection Thresholds	Mode5	APP
Band edge emissions (Radiated)	Mode1,2,3,4	PARTE
Undesirable emission limits (below 1GHz)	Mode1,2,3,4	P AT
Undesirable emission limits (above 1GHz)	Mode1,2,3,4	nbone P
Note: P: Pass	Anbotek Anbotek	Anbotek

N: N/A, not applicable





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#### 1.8. Description of Test Facility

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

#### FCC-Registration No.:434132

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

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

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

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

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

#### 1.9. Disclaimer

- The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 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.
- This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 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	Anbore	k Viii.	Anboiek	Aupo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek /Anbotek	Anborok Aborek

**Duty Cycle** 

Maximum conducted output power

Power spectral density

Emission bandwidth and occupied bandwidth

Channel Move Time, Channel Closing Transmission Time

**DFS Detection Thresholds** 

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	ootek N/A	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
An3ote	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4.nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22



Hotline N



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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- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbote 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Andotek	Anborek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
e <sup>k</sup> 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

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



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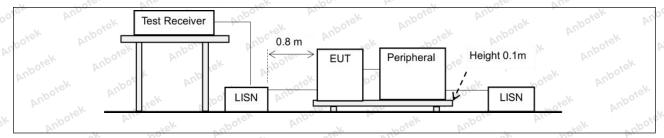
## 2. Conducted Emission at AC power line

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

## 2.1. EUT Operation

the set oppose the set oppose the set oppose
ronment:
1: 802.11a mode: Keep the EUT connect to AC power line and works 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 connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of
worst case is recorded in the report.  3: 802.11ac mode: Keep the EUT connect to AC power line and works 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 connect to AC power line and works 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



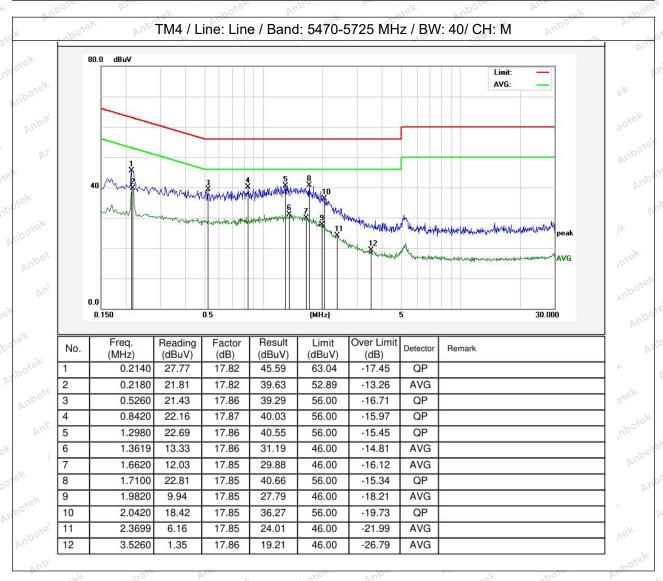




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#### 2.3. Test Data

Temperature:	19.8 °C	Humidity:	61 %	Atmospheric Pressure:	101 kPa
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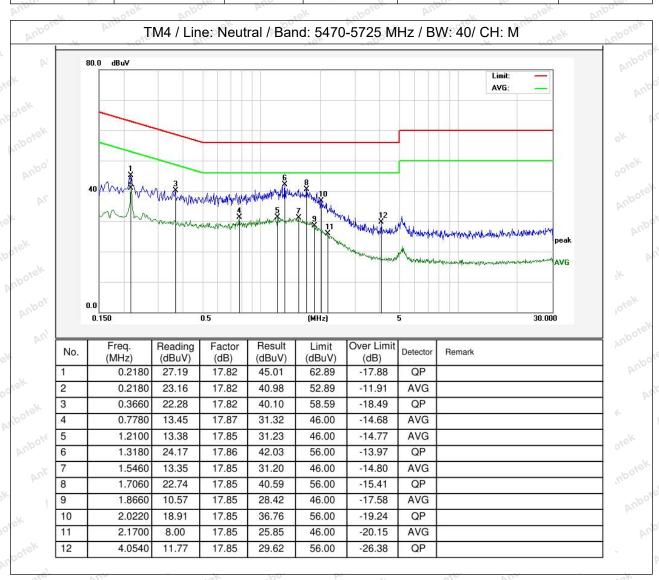






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Temperature: 19.8 °C Humidity: 61 % Atmospheric Pressure: 101 kPa



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)
Anbotek Anbotek	<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> </ul>
Procedure:	iii) Set VBW >= RBW. iv) Set detector = peak.
otek Anbotek Anb	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	Envir	onment:

1: 802.11a mode: Keep the EUT connect to AC power line and works 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.

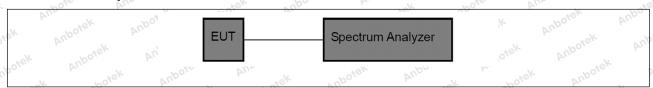
2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

3: 802.11ac mode: Keep the EUT connect to AC power line and works 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 connect to AC power line and works 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: 42 % Atmospheric Pressure: 1	101 kPa
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Please Refer to Appendix for Details.







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## 4. Maximum conducted output power

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2)
Anbotek Anbo	47 CFR Part 15.407(a)(3)(i)
ak Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
k Anbotek Anbote	For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission
otek Anbotek Ant	bandwidth in megahertz.  If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Limit:	For the band 5.725-5.850 GHz, the maximum conducted output power over
Anbotek Anbotek	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
otek Aupotek Aup	the directional gain of the antenna exceeds 6 dBi.  However, fixed point-to-point U-NII devices operating in this band may
upotek Aupo	employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-
Anbotek Anbotek	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
Anbotek Anbo	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 C63.10-2013, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4



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#### 4.1. EUT Operation

#### **Operating Environment:**

1: 802.11a mode: Keep the EUT connect to AC power line and works 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.

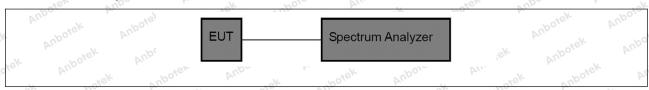
2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

3: 802.11ac mode: Keep the EUT connect to AC power line and works 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 connect to AC power line and works 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.

#### 4.2. Test Setup



#### 4.3. Test Data

Temperature:	25.4 °C	Humidity: 42 %	Anboter	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







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## 5. Power spectral density

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Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2) 47 CFR Part 15.407(a)(3)(i)
Anbotek Anbote	For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.  For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that
ek Anbotek Anb	the directional gain of the antenna exceeds 6 dBi.
Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek	For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. 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 LLNII devices or if the
Aupotek Aupotek	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



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#### 5.1. EUT Operation

#### **Operating Environment:**

1: 802.11a mode: Keep the EUT connect to AC power line and works 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.

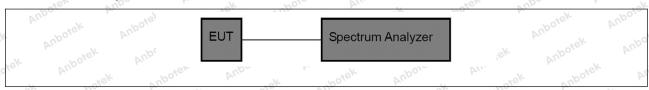
2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

3: 802.11ac mode: Keep the EUT connect to AC power line and works 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 connect to AC power line and works 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.

#### 5.2. Test Setup



#### 5.3. Test Data

Temperature:	25.4 °C	Humidity: 42 %	Anboter	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





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## 6. Emission bandwidth and occupied bandwidth

Tabotek Anbote	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Aupotek Aupo	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, 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 KDB 789033 D02, Clause C.2
Anbotek Anbote	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%.
	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,
Procedure:	and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
	c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the
	spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
	d) Step a) through step c) might require iteration to adjust within the specified range. e) Video averaging is not permitted. Where practical, a sample detection and
	single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be
	used. f) Use the 99% power bandwidth function of the instrument (if available) and 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 connect to AC power line and works 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 connect to AC power line and works 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 connect to AC power line and works 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 connect to AC power line and works 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.



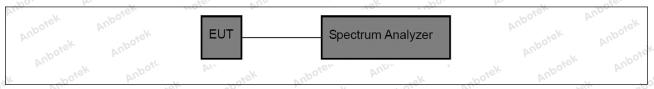






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#### 6.2. Test Setup



#### 6.3. Test Data

Temperature:	25.4 °C	Humidity:	42 %	Atmospheric Pressure:	101 kPa
. 2/0.12 2 : 2:12:12.12.1			.= //	, m., 20 b., 21, 10 . V2, 22 2 2.	10.111

Please Refer to Appendix for Details.





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## 7. Channel Move Time, Channel Closing Transmission Time

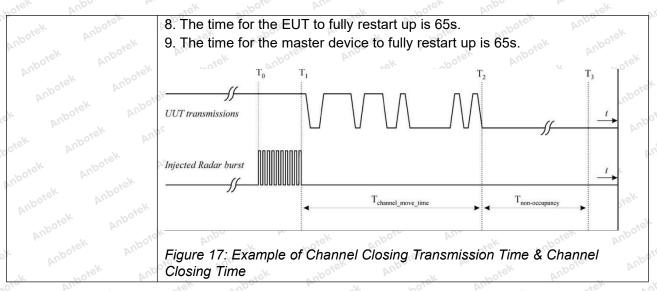
Test Requirement:	47 CFR Part 15.407(h)(2)(iii)
Test Limit:	Channel Move Time: within 10 seconds Channel Closing Transmission Time: 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. (The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the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







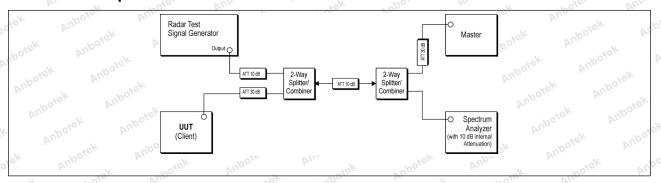
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#### 7.1. EUT Operation

Operating En	vironment:	boiek	Aupole	Ans	anboick	Vupo.
Test mode:	5: Normal Operating	: Keep the EU	T works in n	ormal operatii	ng mode an	d connect to
rest mode.	companion device	Anbo.	A. rek	anbore.	And	ak hotek

#### 7.2. Test Setup



#### 7.3. Test Data

Temperature:   25.4 °C   Humidity:   42 %   Atmospheric Pressure:   101 kPa	Temperature:	25.4 °C	hotek Hum	nidity: 42 %		Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



Hotline



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## 8. DFS Detection Thresholds

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

## 8.1. EUT Operation

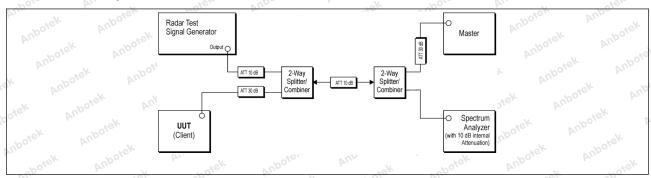
Operating Envi	ronment:	Mpotek	Anbo.	h. boiek	Aupore.	Aur
Test mode:	5: Normal Operatin	g: Keep the EU	T works in nor	mal operating	mode and	connect to
rest mode.	companion device	PUP.	botek	Aupo.	by.	ik abou





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#### 8.2. Test Setup



#### 8.3. Test Data

e)	Temperature:	25.4 °C	Humidity:	42 %	Atmospheric Pressure:	101 kPa
	rompolataro.	20.1	Community.	12 70	Authorphion i roccaro.	TO TO

Please Refer to Appendix for Details.





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## 9. Band edge emissions (Radiated)

	, N - K	70. N.	_XO.	V Ula		VAV.
	anbore.	47 CFR Part 15.407(b)(1)	Aupo.	rojek.	Anbore	Vur Fek
		47 CFR Part 15.407(b)(2)	aboten			Aupo,
	Test Requirement:	47 CFR Part 15.407(b)(3)				hote
		47 CFR Part 15.407(b)(4)				And
6	K Anbo. K A.	47 CFR Part 15.407(b)(10)	ek abote	Anbo	-k hote	K AND

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Toet	ı	imit:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475- 16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4
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) cek
13.36-13.41	Vupor VI	-10t -10°	Ver. Vup

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6





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otek Anbore A		or k botek A	upo, Ve.
ak abotek	The field strength of emiss	sions appearing within thes	se frequency bands shall
Anbore Arr	not exceed the limits show	n in § 15.209. At frequenc	cies equal to or less than
	1000 MHz, compliance with	th the limits in § 15.209sha	all be demonstrated
	using measurement instru	mentation employing a CIS	SPR quasi-peak
	detector. Above 1000 MHz	z, compliance with the emi	ssion limits in §
A. Otek Anboi	15.209shall be demonstra	ted based on the average	value of the measured
	emissions. The provisions	in § 15.35apply to these n	neasurements.
	k cotek Ant		abotek Anbe
	Except as provided elsewh		
hotek Anbo.	intentional radiator shall no	ot exceed the field strength	n levels specified in the
	following table:	Anbore And	potek Anbo
	Frequency (MHz)	Field strength	Measurement
kotek Anbore	All abover	(microvolts/meter)	distance
And	ek Anbore Arr	k aboten And	(meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30 do 100 pm
	1.705-30.0	30 botek An	30
	30-88	100 **	botel 3 Anbo
	88-216	150 **	AND O TOTOK
	216-960	200 **	Anbor 3 Ans
	Above 960	500	3er Ancor
	** Except as provided in p	V 1201	D.C.
	intentional radiators opera		
	frequency bands 54-72 MI		
sk abotek Ant	However, operation within		
	sections of this part, e.g.,		permitted under other
	In the emission table above		at the hand edges
	The emission limits shown		
	employing a CISPR quasi-		- XC.
	90 kHz, 110–490 kHz and		
	these three bands are bas		
	detector.	K Kotek Anbort	Plus Sek Spot
Test Method:	ANSI C63.10-2020, sectio	n 12.7.4. 12.7.6. 12.7.7	otek Aupon K
- Stek	NOTO ALTO	Polok Pupos, - HV	Cick Vupore, Mu
	Above 1GHz:	IT was also and so the tow	of a matation table 1.5
	a. For above 1GHz, the El		
	meters above the ground		
	rotated 360 degrees to de		
	b. The EUT was set 3 met		
	which was mounted on the		
	c. The antenna height is v		
	ground to determine the m		
Procedure:	and vertical polarizations of		
	d. For each suspected em and then the antenna was		
	test frequency of below 30		
	and the rotatable table wa	s turried from 0 degrees to	5 300 degrees to lind the
	maximum reading. e. The test-receiver syster	n was set to Poak Dotact I	Function and Specified
	Bandwidth with Maximum		unction and Specified
	f. If the emission level of the		10dB lower than the
	limit specified, then testing		
		こししいい いき ろいしいせん すけい けん	- DUAN VAIDES UI LIE EUT









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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 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 connect to AC power line and works 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 connect to AC power line and works 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 connect to AC power line and works 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 connect to AC power line and works 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.

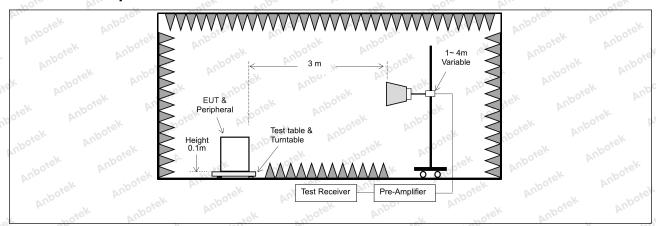






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#### 9.2. Test Setup







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#### 9.3. Test Data

Temperature:	25.4 °C	Humidity:	42 %	Atmospheric Pressure:	101 kPa	
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		TM1 / B	and: 5150-5	350 MHz / B\	N: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.86	15.99	52.85	68.20	-15.35	workH A	Peak
5150.00	38.90	15.99	54.89	68.20	-13.31	V.	Peak
5150.00	26.83	15.99	42.82	54.00	-11.18	Anto Hick	AVG
5150.00	28.85	15.99	44.84	54.00	-9.16	Pub.	AVG
		TM1 / B	and: 5150-5	350 MHz / BV	V: 20 / H		,
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.34	16.43	53.77	68.20	-14.43	H	Peak
5350.00	40.20	16.43	56.63	68.20	-11.57	And Vek	Peak
5350.00	28.62	16.43	45.05	54.00	-8.95	Anh H	AVG
5350.00	29.56	16.43	45.99	54.00	-8.01	Mpoles	AVG

Remark: 1. Result=Reading + Factor

		TM2 / B	and: 5150-5	350 MHz / BV	V: 20 / L	200	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.85	15.99	51.84	68.20	-16.36	Horek	Peak
5150.00	37.21	15.99	53.20	68.20	-15.00	ek V noore	Peak
5150.00	26.57	15.99 nbot	42.56	54.00 NO	-11.44	.ek H	otel <sup>k</sup> AVG Malo
5150.00	27.57	500° 15.99 AN	43.56	54.00	-10.44 Pri	V	AVG
		TM2 / B	and: 5150-53	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.65	16.43	54.08	68.20	-14.12	k Habotel	Peak
5350.00	38.71	16.43	55.14	68.20	-13.06	V V	Peak, No
5350.00	27.67	16.43	44.10 Anbi	54.00	otel -9.90 pm	H And	AVG
5350.00	29.08	16.43	45.51	54.00	-8.49	inpoter A	AVG

Remark: 1. Result=Reading + Factor



Hotline



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		TM2 / B	and: 5150-53	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.34	15.99	52.33	68.20	-15.87	K Habotel	Peak
5150.00	38.20	15.99	54.19	68.20 100T	-14.01	otek V Anbo	Peak
5150.00	26.89	otel 15.99 And	42.88	54.00 pm	-11.12	H-Market	o <sup>tel</sup> AVG
5150.00	28.69	15.99	44.68	54.00	-9.32	V.	AVG
		TM2 / B	and: 5150-53	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.99	16.43	54.42	68.20	-13.78	rek H anboi	Peak
5350.00	36.89	16.43 M	53.32	68.20 M	-14.88	× V	Peak
5350.00	28.14	16.43	44.57	54.00	-9.43	P. H	AVG
5350.00	29.32	16.43	45.75	54.00	-8.25	Anbord	AVG

Remark: 1. Result=Reading + Factor

		TM3 / B	and: 5150-5	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.78	15.99	52.77	68.20	-15.43	nboteH	Peak
5150.00	38.51	15.99	54.50	68.20	-13.70	No Nok	Peak
5150.00	26.48	15.99	42.47	54.00	-11.53	Horiek	AVG
5150.00	28.63	15.99	44.62	54.00	-9.38	V Note	AVG
		TM3 / B	and: 5150-53	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.80	16.43	54.23	68.20	-13.97	NO HE	Peak
5350.00	38.06	16.43	54.49	68.20	-13.71	Votek	Peak
5350.00	27.69	16.43	44.12	54.00	-9.88	H del	AVG
5350.00	28.20	16.43	44.63	54.00	-9.37 <sub>0</sub> 0000	VARRE	AVG

Remark: 1. Result=Reading + Factor





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O. b.	* *	46, 701	•		Po. b.		710.
		TM3 / B	and: 5150-53	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.75	15.99	51.74	68.20	-16.46	HA	Peak
5150.00	36.24	15.99	52.23	68.20	-15.97	Nupo,	Peak
5150.00	25.87	15.99	41.86 Al	54.00	-12.14 <sub>M</sub>	otek H Anbo	AVG
5150.00	26.67 M	15.99	42.66	54.00	-11.34	nbotek V A	AVG
		TM3 / B	and: 5150-53	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.92	16.43	54.35	68.20	-13.85	Hupp	Peak
5350.00	37.10	16.43	53.53	68.20	-14.67	tek A Vupo,	Peak
5350.00	27.41 M	16.43	43.84	54.00	-10.16	hotek H An	AVG
5350.00	27.28	16.43	43.71	54.00	-10.29	V	AVG

Remark: 1. Result=Reading + Factor

	07.	-0.7	70-	- V	01	D/.	-0.5
		TM4 / E	Band: 5150-53	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	otek 36.83 knbs	15.99	52.82	68.20	-15.38	botek H Ant	Peak
5150.00	38.57	15.99	54.56	68.20	-13.64	opore V	Peak
5150.00	26.50	15.99	42.49	54.00	-11.51	Hek	AVG
5150.00	28.67	15.99	44.66	54.00	-9.34	Votek	AVG
		TM4 / E	Band: 5150-53	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.82	16.43	54.25	68.20	-13.95	n H <sup>shodo</sup>	Peak
5350.00	38.08	16.43	54.51	68.20	-13.69	No.	Peak
5350.00	27.72	16.43	44.15	54.00	-9.85	And H tek	AVG
5350.00	28.25	16.43	44.68	54.00	-9.32	PV V	AVG

Remark: 1. Result=Reading + Factor





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		TM4 / B	and: 5150-53	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.79	15.99	51.78	68.20	-16.42	H4	Peak
5150.00	36.27	15.99	52.26	68.20	-15.94	Nupp.	Peak
5150.00	25.94	15.99	41.93	54.00	12.07 nb	otek H Anbo	AVG
5150.00	26.71 M	15.99	42.70	54.00	-11.30	nbotek V A	AVG
		TM4 / B	and: 5150-53	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	37.95	16.43	54.38	68.20	-13.82	H <sup>nb</sup>	Peak
5350.00	37.12	16.43	53.55	68.20	-14.65	tek A Vupo,	Peak
5350.00	27.43	16.43	43.86	54.00	-10.14	hotek H An	AVG
5350.00	27.34	16.43	43.77	54.00	-10.23	V	AVG
- 2/2	. 1/10	-	740	V (1)	- 0/2	- 100	-

Remark: 1. Result=Reading + Factor





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		TM1 / B	and: 5470-58	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	38.03	16.37	54.40	74.00	-19.60	"Ho <sub>ter</sub>	Peak
5460.00	39.36	16.37	55.73	74.00	-18.27	k V spotek	Peak
5470.00	38.96	16.70	55.66	68.20	-12.54	H	Peak Peak
5470.00	39.65	16.70	56.35 mb°	68.20	11.85	oter A Vupe	Peak
5460.00	28.66	16.37	45.03	54.00	-8.97	botek H Ar	AVG
5460.00	28.52	16.37	44.89	54.00	-9.11	V	AVG
5470.00	28.93	16.70	45.63	54.00	-8.37	Pup H ok	AVG
5470.00	30.03	16.70	46.73	54.00	-7.27	PUA.	AVG
		TM1 / B	and: 5470-58	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.95	17.21 And	56.16	68.20	-12.04	sotek H An	Peak An
5850.00	39.29	17.21	56.50	68.20	-11.70	V	Peak
5850.00	28.96	17.21	46.17	54.00	-7.83	Anbort H	AVG
5850.00	29.00	17.21	46.21	54.00	-7.79	N/View	AVG

Remark: 1. Result=Reading + Factor

20	- AP-	<u> </u>	-/r ~0,	D// .		101- 101	· · · · · · · · · · · · · · · · · · ·
		TM2 / B	and: 5470-58	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	37.99	16.37	54.36	74.00	-19.64	Ano H	Peak
5460.00	38.53	16.37	54.90	74.00	-19.10	AUGO	Peak
5470.00	38.10	16.70	54.80	68.20	-13.40	Hootek	Peak
5470.00	38.48	16.70	55.18	68.20	-13.02	V note	Peak
5460.00	27.08	× 16.37	43.45	54.00	-10.55 <sup>1001</sup>	H	AVG NO
5460.00	27.47 no	16.37	43.84	54.00	-10.16	otek V Anb	AVG
5470.00	27.52	16.70	44.22	54.00	-9.78	, Hero	AVG
5470.00	28.01	16.70	44.71	54.00	-9.29	N. V.	AVG
		TM2 / B	and: 5470-58	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.19	17.21	54.40	68.20	-13.80	HANDE	Peak
5850.00	37.84	17.21	35.05 mg	68.20	-13.15	otek V Anbo	Peak
5850.00	27.42	o <sup>te 1</sup> 17.21 Ant	44.63	54.00	-9.37	H	AVG A
5850.00	28.30	17.21	45.51	54.00	-8.49	NUP AK	AVG

Remark: 1. Result=Reading + Factor





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-100 h			U <sub>m</sub>	40		
	TM2 / B	and: 5470-58	350 MHz / BV	V: 40 / L		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
37.57	16.37	53.94	74.00	-20.06	H week	Peak
38.41	16.37	54.78	74.00	-19.22	$\Lambda_{\omega_{\mathcal{O}}}$	Peak
38.40	16.70	55.10	68.20	-13.10	otek H Anbo	Peak
39.02	16.70	55.72	68.20	-12.48	**** OrekV	Peak An
26.73	16.37	43.10	54.00	-10.90	H.	AVG
28.64	16.37	45.01	54.00	-8.99	AnboV	AVG
26.93	16.70	43.63	54.00	-10.37	WHO YELL	AVG
28.32	16.70	45.02	54.00	-8.98	Votek	AVG
	TM2 / B	and: 5470-58	350 MHz / BV	V: 40 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
37.93	17.21	55.14	68.20	-13.06	H K	Peak
38.35	17.21	55.56	68.20	-12.64	Viodna	Peak
28.09	17.21	45.30	54.00	-8.70	Aprek	AVG
29.22	17.21	46.43	54.00	-7.57	Votek	AVG
	(dBuV) 37.57 38.41 38.40 39.02 26.73 28.64 26.93 28.32  Reading (dBuV) 37.93 38.35 28.09	Reading (dBuV) (dB/m)  37.57 16.37  38.41 16.37  38.40 16.70  39.02 16.70  26.73 16.37  28.64 16.37  28.64 16.37  28.32 16.70  TM2 / B  Reading (dBuV) (dB/m)  37.93 17.21  38.35 17.21  28.09 17.21	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           37.57         16.37         53.94           38.41         16.37         54.78           38.40         16.70         55.10           39.02         16.70         55.72           26.73         16.37         43.10           28.64         16.37         45.01           26.93         16.70         43.63           28.32         16.70         45.02           TM2 / Band: 5470-58           Reading (dBuV)         (dB/m)         (dBuV/m)           37.93         17.21         55.14           38.35         17.21         55.56           28.09         17.21         45.30	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)           37.57         16.37         53.94         74.00           38.41         16.37         54.78         74.00           38.40         16.70         55.10         68.20           39.02         16.70         55.72         68.20           26.73         16.37         43.10         54.00           28.64         16.37         45.01         54.00           26.93         16.70         43.63         54.00           28.32         16.70         45.02         54.00           TM2 / Band: 5470-5850 MHz / BV           Reading (dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)           37.93         17.21         55.14         68.20           38.35         17.21         55.56         68.20           28.09         17.21         45.30         54.00	(dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dBuV/m)         (dB)           37.57         16.37         53.94         74.00         -20.06           38.41         16.37         54.78         74.00         -19.22           38.40         16.70         55.10         68.20         -13.10           39.02         16.70         55.72         68.20         -12.48           26.73         16.37         43.10         54.00         -10.90           28.64         16.37         45.01         54.00         -8.99           26.93         16.70         43.63         54.00         -10.37           28.32         16.70         45.02         54.00         -8.98           TM2 / Band: 5470-5850 MHz / BW: 40 / H           Reading (dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dBuV/m)         (dB)           37.93         17.21         55.14         68.20         -13.06           38.35         17.21         55.56         68.20         -12.64           28.09         17.21         45.30         54.00         -8.70	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Over limit (dB)         Antenna Pol.           37.57         16.37         53.94         74.00         -20.06         H           38.41         16.37         54.78         74.00         -19.22         V           38.40         16.70         55.10         68.20         -13.10         H           39.02         16.70         55.72         68.20         -12.48         V           26.73         16.37         43.10         54.00         -10.90         H           28.64         16.37         45.01         54.00         -8.99         V           26.93         16.70         43.63         54.00         -10.37         H           28.32         16.70         45.02         54.00         -8.98         V           TM2 / Band: 5470-5850 MHz / BW: 40 / H           Reading (dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dB)         Pol.           37.93         17.21         55.14         68.20         -13.06         H           38.35         17.21         55.56         68.20         -12.64         V           28.09

Remark: 1. Result=Reading + Factor

		TM3 / B	and: 5470-58	850 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	37.24	16.37	53.61	74.00	-20.39	noH <sup>e</sup>	Peak
5460.00	37.46	16.37	53.83	74.00	-20.17	Votek	Peak
5470.00	37.82	16.70	54.52	68.20	-13.68	H	Peak
5470.00	38.26	16.70	54.96	68.20	-13.24	VANDO	Peak
5460.00	27.92	16.37	44.29	54.00	-9.71	notek H Anb	AVG
5460.00	28.48	16.37	44.85	54.00	-9.15	Ver	AVG N
5470.00	28.20	16.70	44.90	54.00	-9.10	Pupp H	AVG
5470.00	28.94	16.70	45.64	54.00	-8.36	Anb V	AVG
		TM3 / B	and: 5470-58	350 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.98	17.21	55.19	68.20	-13.01	otek H Anbe	Peak
5850.00	38.89	17.21	56.10	68.20	-12.10 And	V	Peak
5850.00	27.88	17.21	45.09	54.00	-8.91	Mpo, H	AVG
5850.00	28.90	17.21	46.11	54.00	-7.89	Vup A.	AVG

Remark: 1. Result=Reading + Factor







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<u> </u>		TM3 / R	and: 5470-59	350 MHz / BV	V· 40 / I		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	36.20	16.37	52.57	74.00	-21.43	"Ho <sub>fe</sub> .	Peak
5460.00	37.76	16.37	54.13	74.00	-19.87	v V botek	Peak
5470.00	36.63	16.70	53.33	68.20	-14.87	H	Peak
5470.00	38.10	16.70	54.80 M	68.20	-13.40	oter Aupo	Peak
5460.00	27.23	16.37	43.60	54.00	-10.40	HOTEKH AT	AVG
5460.00	27.37	16.37	43.74	54.00	-10.26	V	AVG
5470.00	27.48	16.70	44.18	54.00	-9.82	Anbo H ok	AVG
5470.00	28.18	16.70	44.88	54.00	-9.12	AND	AVG
		TM3 / B	and: 5470-58	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.56	17.21	54.77	68.20	-13.43	Lotek H An	Peak An
5850.00	38.34	17.21	55.55	68.20	-12.65	V	Peak
5850.00	27.55	17.21	44.76	54.00	-9.24	AuporH ″	AVG
5850.00	27.13	17.21	44.34	54.00	-9.66	N. W. Co.	AVG

Remark: 1. Result=Reading + Factor

			V			You o'	
		TM4 / E	Band: 5470-58	850 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	38.06	16.37	54.43	74.00	-19.57	And Hok	Peak
5460.00	39.39	16.37	55.76	74.00	-18.24	Anbe V rek	Peak
5470.00	38.99	16.70	55.69	68.20	-12.51	H	Peak
5470.00	39.68	16.70	56.38	68.20	11.82 mo	VAUDO	Peak
5460.00	28.68	16.37	45.05 M	54.00		potek H Ant	AVG
5460.00	28.54	16.37	44.91	54.00	-9.09	Anbotek I	AVG
5470.00	28.95	16.70	45.65	54.00	-8.35	nb#K	AVG
5470.00	30.05	16.70	46.75	54.00	-7.25	Motek	AVG
		TM4 / E	and: 5470-58	350 MHz / BV	V: 20 / H	100	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.98	17.21	56.19	68.20	-12.01	Anboten H P	Peak
5850.00	39.32	17.21	56.53	68.20	-11.67	No VK	Peak
5850.00	28.99	17.21	46.20	54.00	-7.80	Hotek	AVG
5850.00	29.02	17.21	46.23	54.00	-7.77	V vek	AVG

Remark: 1. Result=Reading + Factor







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40.	Thore Ar	\v	niek n	upo h.	You	-bore	74.00
		TM4 / B	and: 5470-58	850 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	37.60	16.37	53.97	74.00	-20.03	k Hupote	Peak
5460.00	38.44	16.37	54.81	74.00	-19.19	otek V anb	Peak
5470.00	38.43	16.70	55.13	68.20	-13.07	Lotek H	Peak Pri
5470.00	39.05	16.70	55.75	68.20	-12.45	V.	Peak
5460.00	26.75	16.37	43.12	54.00	-10.88	Hups Hick	AVG
5460.00	28.65	16.37	45.02	54.00	-8.98	V.Upc Stek	AVG
5470.00	26.95	16.70	43.65	54.00	-10.35	H	AVG bote
5470.00	28.33	16.70	45.03	54.00	otek -8.97 And	A Aupe	AVG
		TM4 / B	and: 5470-58	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.96	17.21	55.17	68.20	-13.03	AND HOLEK	Peak
5850.00	38.37	17.21	55.58	68.20	-12.62	A <sub>pp</sub>	Peak
5850.00	28.12	17.21	45.33	54.00	-8.67	isk H Mupo	AVG
5850.00	29.24	17.21	46.45	54.00 M	-7.55	otek V An	AVG AVG

Remark: 1. Result=Reading + Factor





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# 10. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)	And Lek abotek Anb	or All
Anbotek Anbotek	Unwanted emissions below strength limits set forth in §	1 GHz must comply with the ge 15.209.	neral field
		ere in this subpart, the emissions t exceed the field strength levels	
Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 30
Test Limit:	1.705-30.0 30-88	30 100 ** 150 **	30 3
botek Anbotek	88-216 216-960 Above 960	200 **	3
	** Except as provided in pa intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissiing under this section shall not b lz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt	e located in the 470-806 MHz.
	In the emission table above The emission limits shown employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	e, the tighter limit applies at the bin the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emised on measurements employing	measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020, section	12.7.4, 12.7.5	Aug
	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 rotate ta 3 meter semi-anechoic chame determine the position of the his meters away from the interferenced on the top of a variable-heigh ried from one meter to four meter aximum value of the field strength of the antenna are set to make the	ber. The table ghest radiation. nce-receiving t antenna tower. ers above the h. Both horizonta
Procedure:	d. For each suspected emis and then the antenna was t test frequency of below 30N and the rotatable table was maximum reading.	ssion, the EUT was arranged to tuned to heights from 1 meter to MHz, the antenna was tuned to he turned from 0 degrees to 360	its worst case 4 meters (for the neights 1 meter) egrees to find the
Anbotek Anbotek	Bandwidth with Maximum If. If the emission level of the limit specified, then testing	was set to Peak Detect Function Hold Mode.  E EUT in peak mode was 10dB I could be stopped and the peak was the emissions that did not hat	ower than the 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.

# 10.1. EUT Operation

#### **Operating Environment:**

1: 802.11a mode: Keep the EUT connect to AC power line and works 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 connect to AC power line and works 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 connect to AC power line and works 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 connect to AC power line and works 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.

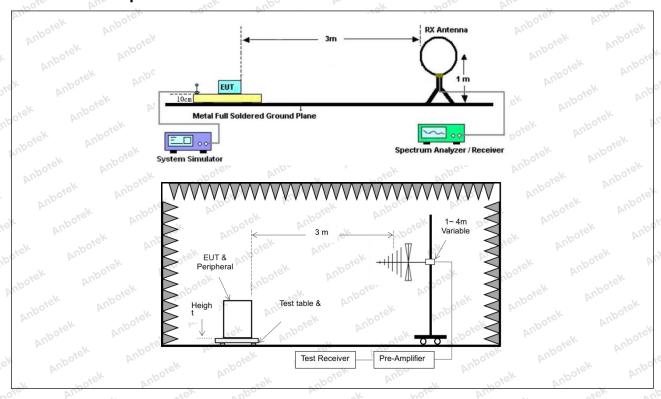
### **Shenzhen Anbotek Compliance Laboratory Limited**





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# 10.2. Test Setup





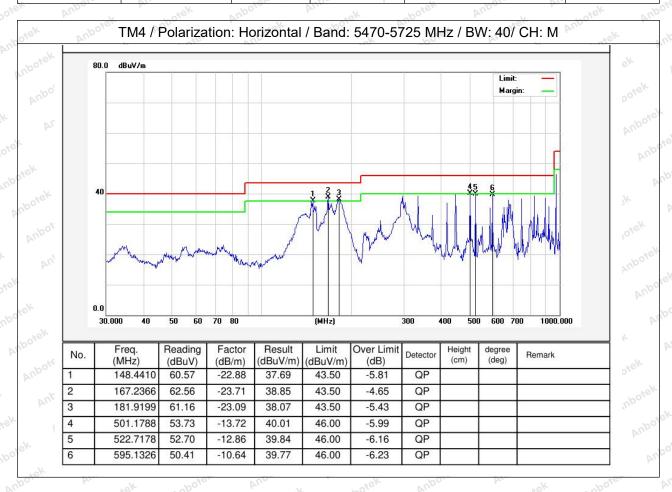


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#### 10.3. Test Data

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

Temperature:	25.4 °C	Hun	nidity: 42 %	Atmo	spheric Pressu	re: 101 kPa

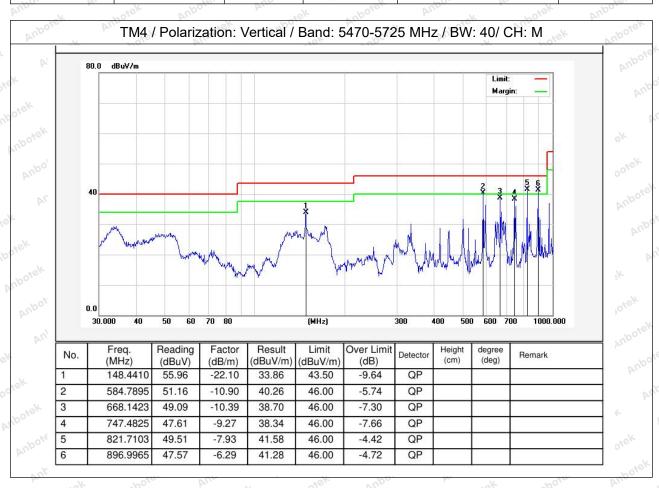






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Temperature: 25.4 °C Humidity: 42 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.







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# 11. Undesirable emission limits (above 1GHz)

	, N - K	70. N.	_XO.	V Ula		VAV.
	anbore.	47 CFR Part 15.407(b)(1)	Aupo.	rojek.	Anbore	Vur Fek
		47 CFR Part 15.407(b)(2)	aboten			Aupo,
	Test Requirement:	47 CFR Part 15.407(b)(3)				hote
		47 CFR Part 15.407(b)(4)				And
6	K Anbo. K A.	47 CFR Part 15.407(b)(10)	ek abote	Anbo	-k hote	K AND

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Toet	ı	imit:	

MHz And	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475- 16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4
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) 10 tek
13.36-13.41	Aupor Dir.	dek ab	View Vupa

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6





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otek Anbore A		or k botek A	upo, Ve.
eak shotek	The field strength of emiss	sions appearing within thes	se frequency bands shall
Anbore Arr	not exceed the limits show	n in § 15.209. At frequenc	cies equal to or less than
	1000 MHz, compliance with	th the limits in § 15.209sha	all be demonstrated
	using measurement instru	mentation employing a CIS	SPR quasi-peak
	detector. Above 1000 MHz	z, compliance with the emi	ssion limits in §
A. Otek Anboi	15.209shall be demonstra	ted based on the average	value of the measured
	emissions. The provisions	in § 15.35apply to these n	neasurements.
	k cotek Ant		abotek Anbe
	Except as provided elsewh		
hotek Anbo.	intentional radiator shall no	ot exceed the field strength	n levels specified in the
	following table:	Anbore And	potek Anbo
	Frequency (MHz)	Field strength	Measurement
kotek Anbore	All abover	(microvolts/meter)	distance
And	ek Anbore Arr	k aboten And	(meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30 do 100 pm
	1.705-30.0	30 botek An	30
	30-88	100 **	botel 3 Anbo
	88-216	150 **	AND O TOTOK
	216-960	200 **	Anbor 3 Ans
	Above 960	500	3er Ancor
	** Except as provided in p	V 1201	D.C.
	intentional radiators opera		
	frequency bands 54-72 MI		
sk abotek Ant	However, operation within		
	sections of this part, e.g.,		permitted under other
	In the emission table above		at the hand edges
	The emission limits shown		
	employing a CISPR quasi-		- XC.
	90 kHz, 110–490 kHz and		
	these three bands are bas		
	detector.	K Kotek Anbort	Plus Sek Spot
Test Method:	ANSI C63.10-2020, sectio	n 12.7.4. 12.7.6. 12.7.7	otek Aupon K
- Stek	NOTO ALL	Polok Pupos, - HV	Cick Vupore, Mu
	Above 1GHz:	IT was also and so the tow	of a matation table 1.5
	a. For above 1GHz, the El		
	meters above the ground		
	rotated 360 degrees to de		
	b. The EUT was set 3 met		
	which was mounted on the		
	c. The antenna height is v		
	ground to determine the m		
Procedure:	and vertical polarizations of		
	d. For each suspected em and then the antenna was		
	test frequency of below 30		
	and the rotatable table wa	s turried from 0 degrees to	5 300 degrees to lind the
	maximum reading. e. The test-receiver syster	n was set to Poak Dotact I	Function and Specified
	Bandwidth with Maximum		unction and Specified
	f. If the emission level of the		10dB lower than the
	limit specified, then testing		
		こししいい いき ろいしいせん すけい けん	- DUAN VAIDES UI LIE EUT









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

## 11.1. EUT Operation

#### Operating Environment:

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

Test mode:

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

- 3: 802.11ac mode: Keep the EUT connect to AC power line and works 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 connect to AC power line and works 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.

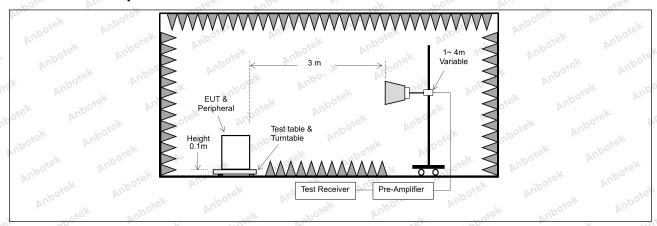
#### **Shenzhen Anbotek Compliance Laboratory Limited**





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# 11.2. Test Setup







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# 11.3. Test Data

Temperature: 25.4 °C Humidity: 42 % Atmospheric Pressure: 101 kPa

		TM4 / B	and: 5150-52	250 MHz / BV	V: 40 / L	-111	- · · · · · · · · · · · · · · · · · · ·
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10380.00	29.55	23.81 M	53.36	68.20	-14.84	V	Peak
15570.00	30.82	28.91	59.73	68.20	-8.47	Wpo. A	Peak
10380.00	30.63	23.81	54.44	68.20	-13.76	Anboth .	Peak
15570.00	31.48	28.91	60.39	68.20	-7.81	"Ho, ser	Peak
10380.00	20.26	23.81	44.07	54.00	-9.93	Vooick	AVG
15570.00	20.73	28.91	49.64	54.00	-4.36	V	AVG Noon
10380.00	20.58	23.81	44.39	54.00	ore -9.61 And	H AM	AVG
15570.00	20.85	28.91	49.76	54.00	-4.24	nbotek H Ar	AVG
		TM4 / B	and: 5150-52	250 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10460.00	29.86	23.80	53.66	68.20	-14.54	Kupote	Peak
15690.00	31.04	30.03	61.07	68.20	-7.13	rek V noot	Peak
10460.00	30.43	23.80	54.23	68.20	-13.97	H	ote <sup>ll</sup> Peak M
15690.00	31.64	30.03	61.67	68.20	-6.53	H bu	Peak
10460.00	20.47	23.80	44.27	54.00	-9.73	Aupore	AVG
15690.00	20.65	30.03	50.68	54.00	-3.32	No Ash	AVG
10460.00	20.45	23.80	44.25	54.00	-9.75	Hotek	AVG
15690.00	20.59	30.03	50.62	54.00	-3.38	H	AVG

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





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		TM4 / B	and: 5250-5	350 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10540.00	27.26	23.83	51.09	68.20	-17.11	V.	Peak
15810.00	29.02	30.70	59.72	68.20	-8.48	K Nupote	Peak
10540.00	27.70 por	23.83	51.53	68.20	-16.67	otek H noo	Peak
15810.00	29.08	30.70 pm	59.78	68.20	-8.42 Ant	H	Peak
10540.00	16.97	23.83	40.80	54.00	-13.20	Wpo, A	AVG
15810.00	18.16	30.70	48.86	54.00	-5.14	Auport.	AVG
10540.00	17.45	23.83	41.28	54.00	-12.72	Hotek	AVG
15810.00	18.43	30.70	49.13	54.00	-4.87	H botek	AVG
0.00		TM4 / B	and: 5250-5	350 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10620.00	27.99	23.90	51.89	68.20	-16.31	V	Peak
15930.00	27.80	31.83	59.63	68.20	-8.57	Aup Aup A	Peak
10620.00	28.50	23.90	52.40	68.20	-15.80	An H	Peak
15930.00	28.57	31.83	60.40	68.20	-7.80	Hobotes	Peak
10620.00	18.23	23.90	42.13	54.00	-11.87	ek V nbot	AVG
15930.00	17.53	31.83	49.36	54.00	-4.64	V	AVG A
10620.00	18.53	23.90	42.43	54.00	-11.57	Poster H	AVG
15930.00	17.70 N	31.83	49.53	54.00	-4.47	Mporell H	AVG

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





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·	**	TM4 / B	and: 5470-5	725 MHz / BV	V: 40 / L	**	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11020.000	27.54	24.12	51.66	68.20	-16.54	V.	Peak
16530.000	27.80	32.96	60.76	68.20	-7.44	k Nupote	Peak
11020.000	28.61	24.12	52.73	68.20	-15.47	otek H not	Peak
16530.000	27.46	32.96 × <sup>(2)</sup>	60.42	68.20	-7.78 Ant	Н	Peak
11020.000	17.24	24.12	41.36	54.00	-12.64	Wpor A	AVG
16530.000	17.92	32.96	50.88	54.00	-3.12	Auport.	AVG
11020.000	16.81	24.12	40.93	54.00	-13.07	Hotek	AVG
16530.000	17.56	32.96	50.52	54.00	-3.48	Horek	AVG
		TM4 / B	and: 5470-57	725 MHz / BV	V: 40 / M		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11180.000	26.84	23.86	50.70	68.20	-17.50	V	Peak
16770.000	28.03	32.25	60.28	68.20	-7.92	Aup Aup	Peak
11180.000	27.42	23.86	51.28	68.20	-16.92	AnH	Peak
16770.000	27.63	32.25	59.88	68.20	-8.32	Hypoten	Peak
11180.000	16.45	23.86	40.31	54.00	-13.69	ek V nbot	AVG
16770.000	16.64	32.25	48.89	54.00	-5.11 ·····	V	AVG
11180.000	16.44	23.86	40.30	54.00	-13.70	Poole H	AVG
16770.000	17.12	32.25	49.37	54.00	-4.63	Anborth	AVG
		TM4 / B	and: 5470-5	725 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11340.000	27.84	23.60	51.44	68.20	-16.76	Sk A Vupos	Peak
17010.000	28.03	31.58	59.61	68.20	-8.59	otek V Ant	Peak
11340.000	26.42	23.60	50.02	68.20	-18.18 <sup>M</sup>	H	Peak
17010.000	27.08	31.58	58.66	68.20	-9.54	Aupo H	Peak
11340.000	17.24	23.60	40.84	54.00	-13.16	AUPS	AVG
17010.000	17.88	31.58	49.46	54.00	-4.54	Notek	AVG
11340.000	16.92	23.60	40.52	54.00	-13.48	K H upote	AVG
17010.000	17.72	31.58	49.30	54.00	-4.70 no	, H	AVG

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









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TM4 / Band: 5725-5850 MHz / BW: 40 / L								
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
11510.000	28.53	23.36	51.89	68.20	-16.31	P.V.	Peak	
17265.000	29.03	32.02	61.05	68.20	-7.15	K VAnbore	Peak	
11510.000	29.30	23.36	52.66	68.20	-15.54	otek H nb	Peak	
17265.000	29.31	32.02 M	61.33	68.20	-6.87 Ant	Н	Peak	
11510.000	18.22	23.36	41.58	54.00	-12.42	Nupor V	AVG	
17265.000	18.58	32.02	50.60	54.00	-3.40	Aup of C	AVG	
11510.000	18.52	23.36	41.88	54.00	-12.12	Hotek	AVG	
17265.000	18.98	32.02	51.00	54.00	-3.00	H botek	AVG	
607		TM4 / B	and: 5725-5	850 MHz / BV	V: 40 / H			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
11590.00	27.81	23.43	51.24	68.20	-16.96	Ŋ.	Peak	
17385.00	29.00	32.23	61.23	68.20	-6.97	Anb V.ck	Peak	
11590.00	28.41	23.43	51.84	68.20	-16.36	Anh	Peak	
17385.00	28.61	32.23	60.84	68.20	-7.36	Hupoter	Peak	
11590.00	17.41	23.43	40.84	54.00	-13.16	ek V nbot	AVG	
17385.00	17.61	32.23	49.84	54.00	-4.16 h	V	AVG M	
11590.00	18.43	23.43	41.86	54.00	-12.14	H V	AVG	
17385.00	18.56	32.23	50.79	54.00	-3.21	Anbore H	AVG	

- 1. Result =Reading + Factor
- 2. Only the worst case 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 -----

