

 Report No.:
 18220WC30234702
 FCC ID: 2AQ3F-CGS2
 Page 1 of 44

FCC Test Report

Applicant : Qingping Technology (Beijing) Co., Ltd.

- Address
- C309, 3rd Floor, Building 1, No. 9 Wangjing : North Road, Chaoyang District, Beijing, 100102, China
- Product Name : Qingping Air Monitor
- Report Date : Jan. 16, 2024



Shenzhen Anbotek

Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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Test Model No. Reference Model No.

Trade Mark

Rating(s)

Test Standard(s)

Input: 5V-1A(with DC 3.7V, 1800mAh battery inside) 47 CFR Part 15E

ANSI C63.10-2020 KDB 789033 D02 General UNII Test Procedures New Rules v02r01

CGS2

Qingping

: N/A

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:

Date of Test:

Nov. 06, 2023 to Jan. 12, 2024

Lang

(Ella Liang)

Bolward pan

(Edward Pan)

Approved & Authorized Signer:

Shenzhen Anbotek Compliance Laboratory Limited

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Nov. 06, 2023

Ella

Prepared By:



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Revision History

Report Version	Description	Issued Date
Anbote R00 notek An	Original Issue.	Jan. 16, 2024
Anbor Anborek	Anbotek Anbotek Anbotek	K abotek Anbotek Anb
on Annotek Anbotek Anbotek	Anbotek Anbotek Anbot	btek Anbotek Anboten A

Shenzhen Anbotek Compliance Laboratory Limited

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1. General Information

1.1. Client Information

Applicant	: Qingping Technology (Beijing) Co., Ltd.	Annote
Address	C309, 3rd Floor, Building 1, No. 9 Wangjing North Road, Chaoyang Beijing, 100102, China	District,
Manufacturer	: Qingping Technology (Beijing) Co., Ltd.	otek
Address	C309, 3rd Floor, Building 1, No. 9 Wangjing North Road, Chaoyang Beijing, 100102, China	District,
Factory	: Qingping Technology (Shenzhen) Co., Ltd.	Anbotek
Address	Floor 4, No. 90-7, Dayang Road, Rentian Community, Fuhai Street, District, Shenzhen, Guangdong	Baoan

1.2. Description of Device (EUT)

Product Name	:	Qingping Air Monitor
Test Model No.	:	CGS2 Anborek Anborek Anborek Anborek Anborek Anborek
Reference Model No.	:	N/A hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Qingping
Test Power Supply	:	DC 5V from adapter input AC 120V/60Hz; DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A tek upotek Anbotek Anbotek Anbotek Anbotek Anbotek

RF Specification

Operation Frequency	:	802.11a/n(HT20)/ac(HT20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(HT40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 3: 5755MHz to 5795MHz;
Number of Channel	:	802.11a/n(HT20)/ac(HT20): U-NII Band 1: 4; U-NII Band 3: 5; 802.11n(HT40)/ac(HT40): U-NII Band 1: 2; U-NII Band 3: 2;
Modulation Type	:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
Antenna Type	:	Steel Antenna
Antenna Gain(Peak)	:	WiFi 5.2G: 5.7dBi WiFi 5.8G: 7.5dBi

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Remark:

(1) All of the RF specification are provided by customer.

(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer Model No.		Serial No.	
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J	

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1.4. Operation channel list

Operation Band: U-NII Band 1

Bandwidth:	20MHz	Bandwidth:	40MHz	Annotek	Antpres
Channel	Frequency (MHz)	Channel	Frequency (MHz)	, npotek	Knbote.
36	mbote 5180 mbote	38	Anbote 5190 Anbo	tek Inpo	ek / Anbor
40	5200	46	5230	atek /	potek / An
hooten 44Anbourek	5220	hore Ann botek	Antogreen A	notek	Anbotet
Anboten 48 Anbo	5240	Anbor An	tek Allooten	Anbergek	Anbriek

Operation Band: U-NII Band 3

Bandwidth:	20MHz	Bandwidth:	40MHz	tek Anbot	sk / Aupor
Channel	Frequency (MHz)	Channel	Frequency (MHz)	otek / An	potek / Anb
149	5745	tek 151 nbotek	5755	hotel	Anbotek A
Anboin 153 Anot	5765	159	5795	Antek	Anbyen
Anboi 157	5785 oten	Anbo dek an	potek /Anbore	And	Alooten
161	botek 5805 Anbotek	Anderstek	Anbotek / Anbot	ek I abote	K Anbote
165	5825	And sotek	Anbotek Anbo	ek / pin	otek / Anbr

1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek Anbotek TM1 ^{Anbotek}	Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
TM2*	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.
Anborek TM3.nborek An	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.

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1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Conducted Output Power	0.76dB tek hopotek Anbotek Anbotek
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 eva This uncertainty represents an expanded uncertaint	aluated according to AB/WI-RF-F-032.

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	AntPotek
Duty Cycle	Mode1,2,3	P
Maximum conducted output power	Mode1,2,3	PART P
Power spectral density	Mode1,2,3	P _{va}
Emission bandwidth and occupied bandwidth	Mode1,2,3	Pk
Band edge emissions (Radiated)	Mode1,2,3	Anbo P ek
Undesirable emission limits (below 1GHz)	Mode1,2,3	P
Undesirable emission limits (above 1GHz)	Mode1,2,3	Panbo
Note:	stek anbotek Anb	ore An

P: Pass N: N/A, not applicable

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1.8. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

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

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.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
 - 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
 - 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

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

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1.10. Test Equipment List

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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
o ^{tek} 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 Anbo	rek /Anborek	Anboisek
	You you	p.v.	den pho		Not ye	be.

Maxir Powe	Cycle num conducted outp r spectral density sion bandwidth and c	ote. And ok	Anbotek A Anbotek	Anbotek Anbotek	Anbotek A	Anbotek Ant
ltem	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
An IAnt	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/Asnbot	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
,3 ^k	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
An4ote	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5.nb	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6 P	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22

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	edge emissions (Ra sirable emission limi		Anboran	Anbotek	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	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
1° ^K 3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nboten 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	And	Anbotek
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
^{,04} 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24
19.	Abo, Ai	10707	AUD	194	.00,	N. K.

Undesirable emission limits (below 1GHz)

Cindo						
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
Antote	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5 nb	EMI Test Software EZ-EMC	SHURPLE	N/A	N/Antoon	Anboing Anboing	k Anbotek

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2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)		
And tek	Frequency of emission (MHz)	Conducted limit (dBµV)	boten And
Anbor An	et inboten And	Quasi-peak	Average
K botek Anbo.	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5	56	46 boten Int
otek Anbois Ali	5-30 And And	60 Jotek Anbo	50
stek unbotek	*Decreases with the logarithm of th	ne frequency.	Anbo
Test Method:	ANSI C63.10-2020 section 6.2	Anbo	rek Anbore

2.1. EUT Operation

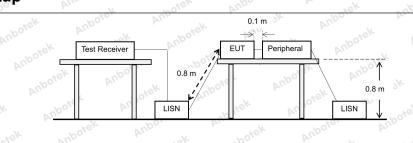
Operating Environment:

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

2.2. Test Setup

report.

Test mode:



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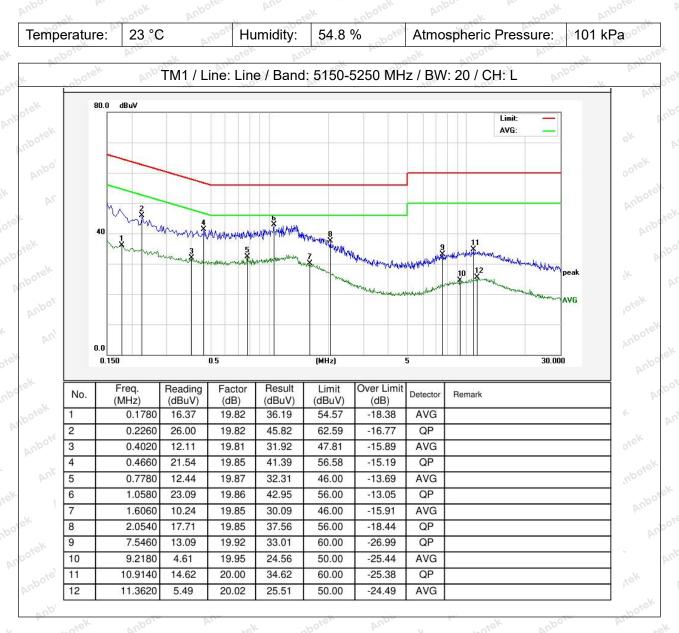
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





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2.3. Test Data

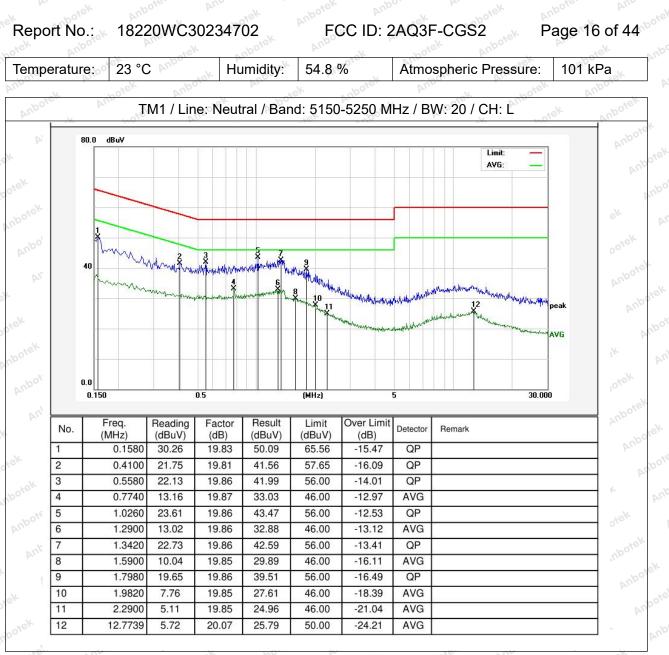


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Note:Only record the worst data in the report.

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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 Anbotek	 i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW >= EBW if possible; otherwise, set RBW to the largest available value. iii) Set VDW >= DDW
Procedure:	 iii) Set VBW >= RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW
otek Anbotek	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 Environment:

Andrek	1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a
And	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.
ter Anbo	2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data
Test mode:	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Anbotek Anbotek	3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the
Anbe	report.

3.2. Test Setup

Þç	potek	EUT		Spectrum Ar	alvzer	
	Anbotek	And	r	ek onboi	A	

3.3. Test Data

ſ	Temperature:	24.1 °C	Humidity:	42 %	Atmospheric Pressure:	101 kPa	20
10	o. b.	10	000	Jo.		No.	

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)(3)(i)
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
Test Limit: Anborek	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. 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-to-point operations.
Test Method:	ANSI C63.10-2013, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4

4.1. 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
ek sootel	the worst case. Only the data of worst case is recorded in the report.
por Ar.	2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data
Test mode:	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
	3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the
anboit Anboit	report.

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4.2. Test Setup

Anbotek		EUT	Spec	ctrum Analyzer	P1		Anbotek	
ak abotek	Anborc	A''' wotek	anboter	And	abotek	Anboten	Anu	
			Yo.					

4.3. Test Data

Temperature:	24.1 °C	-xek	Humidity:	42 %	Atmospheric Pressure:	101 kPa
AV .	.V.	- O 1	5×*	20.		14O 1

Please Refer to Appendix for Details.

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5. Power spectral density

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)
Anborek Anbor k Anborek Anbor otek Anborek Anbor unborek Anborek Anborek Anborek	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	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 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 Envir	onment: Anborek Anborek Anborek Anborek Anborek
Test mode:	 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. 2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. 3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. 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.
ek spotek	report. Anbolek Anbolek Anbolek Anbolek Anbolek Anbole

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5.2. Test Setup

Anbotek		EUT	Spec	trum Analyzer	P.0		Anbotek	
ak abotek	Anborc	A"	Anboter	Ano-	botek	Anboten	And	
, Pr.	der.	np-	Yo.	-100 ¹⁻	Pr.	NOT	UD.	

5.3. Test Data

Temperature:	24.1 °C	-*eK	Humidity:	42 %	Atmospheric Pressure:	101 kPa
AV.	N/	10 C	5×*	20.		· 0.

Please Refer to Appendix for Details.

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6. Emission bandwidth and occupied bandwidth

Annotek Anboten	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	And the stek Andore Ann lek aboten And
Anbort All	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
k nbotek Anbo	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Limit:	ote An
oter Anbo h	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands,
tek nb ^{oten}	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
An botek Anboten	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%.
	And Andrew Andrew Andrew botek Andro An
	Occupied bandwidth:
	a) The instrument center frequency is set to the nominal EUT channel center
w hotek	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,
aboten Anbo	and VBW shall be approximately three times the RBW, unless otherwise
- Ar. Anbore	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
	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. And
	f) Use the 99% power bandwidth function of the instrument (if available) and
botek Anbore	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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Product Safety	notek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
And	And otek unbotek Anbor An Anborer And otek unbo
Report No.:	18220WC30234702 FCC ID: 2AQ3F-CGS2 Page 23 of 44
Anbotek Anbote	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
Anbo	the total is reached;
k Anboten l	that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the
otek Anbo, botek	total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is
ntore. And	the difference between these two frequencies.
hotek Anbore	h) The occupied bandwidth shall be reported by providing plot(s) of the
And K N	measuring instrument
Anboren And	display; the plot axes and the scale units per division shall be clearly labeled.
n otek	Tabular data may
And	be reported in addition to the plot(s).
tek nboter	And ak botek Anbo, An otek unbote, And ak
k wotek	6 dB emission bandwidth:
aboten Ano	a) Set RBW = 100 kHz.
otek unbote.	b) Set the video bandwidth (VBW) ≥ 3 >= RBW.
pribe k ho	 c) Detector = Peak. d) Trace mode = max hold.
anboten Anbo	e) Sweep = auto couple.
Air stek	f) Allow the trace to stabilize.
Anbo	g) Measure the maximum width of the emission that is constrained by the
tel anboter	frequencies associated with the two outermost amplitude points (upper and
P. Stek	lower frequencies) that are attenuated by 6 dB relative to the maximum level
botek Anbu.	measured in the fundamental emission.
6.1. EUT Oper	And hotek Anboi And tek unboiter Anb

6.1. EUT Operation

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

6.2. Test Setup

No.	NOTE: P	102	. A.	P0. b.	6. s.	010	N.C.
nbore		EUT .		Spectrum Analy	zer		
Anbo		r abotek	Anbo'	A	Anbote.		

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6.3. Test Data

Temperature:	24.1 °C	AnberghHu	nidity: 42 %	Anbort	Atmospheric Pre	ssure:	101 kPa
And		Anbo	A. sek	nbote.	AUL		
Please Refer to	Appendix	for Details.					

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7. Band edge emissions (Radiated)

NOPT N	NOT DI	-xer-)~ · · ·	N NOV
Test Requirement:	47 CFR Part 15.407(b) 47 CFR Part 15.407(b) 47 CFR Part 15.407(b)	(4) moter		botek Anbotek
K Anborek Anbor	For transmitters operat of the 5.15-5.35 GHz b			
oten And	For transmitters operat	ting solely in the 5.72	5-5 850 GHz ba	nd. obotek
Anborek Anborek	All emissions shall be l above or below the bal	limited to a level of -2	27 dBm/MHz at 3	75 MHz or more
Anboten Anbo	above or below the bal	U		- C.V.
botek Anbort	edge increasing linearl			
An otek Anbote	below the band edge, a			
Anbornek	increasing linearly to a			A CONTRACTOR
ntek anboter Anu	MHz	MHz	MHz	GHz
k wotek	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
nboten Anbe	¹ 0.495-0.505	16.69475- 16.69525	608-614	5.35-5.46
Anbotek Anb	2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75
Anbo	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
nboten Anb	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
tek Anbotek Anbr	4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5
ek sbotek A	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
Test Limit:	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
lest Limit.	6.31175-6.31225	123-138	2200-2300	14.47-14.5
Anbore. And	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
Anbotek Anbot	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4
ek unboten Anb	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
k hotek at	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
poten Anbo	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
otek unboten	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
Anby K sotek	12.57675-12.57725	322-335.4	3600-4400	(2) Anbore
Anboten Anbo	13.36-13.41	A	Aupoter Aup	Harode Har
ak bore				bon Ali

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

²Above 38.6

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements.

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		here in this subpart, the emission of exceed the field strength level in the field strength level in the field strength level is the field str	
Antek Anbotek Anbotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 otek
	0.490-1.705	24000/F(kHz)	30 AM
k hotek	1.705-30.0	30" And	tek 30 unbord
boten And	30-88	100 **	3 hotek
	88-216	150 **	bors Ann
	216-960	200 **	3 lek noor
	Above 960	500	3
	The emission limits shown employing a CISPR quas 90 kHz, 110–490 kHz and	§§ 15.231 and 15.241. we, the tighter limit applies at the n in the above table are based of i-peak detector except for the fr I above 1000 MHz. Radiated en sed on measurements employin	on measurements equency bands 9– nission limits in
V 1.0V DV.			
Test Method:	ANSI C63.10-2020, sectio	on 12.7.4, 12.7.6, 12.7.7	ant Anbotak
Test Method:	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th	UT was placed on the top of a at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten	mber. The table wa est radiation. -receiving antenna na tower.
Test Method:	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is v ground to determine the r	UT was placed on the top of a r at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont
Test Method:	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is y ground to determine the r and vertical polarizations	UT was placed on the top of a r at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement.
Test Method:	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is w ground to determine the r and vertical polarizations d. For each suspected en	UT was placed on the top of a at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make hission, the EUT was arranged	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case
Test Method:	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is v ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was	UT was placed on the top of a l at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make hission, the EUT was arranged is tuned to heights from 1 meter	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Notek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is v ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 3	UT was placed on the top of a r at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make hission, the EUT was arranged to s tuned to heights from 1 meter OMHz, the antenna was tuned to	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter)
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is w ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was	UT was placed on the top of a l at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make hission, the EUT was arranged is tuned to heights from 1 meter	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter)
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Notek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is w ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was maximum reading.	UT was placed on the top of a r at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make hission, the EUT was arranged to a tuned to heights from 1 meter DMHz, the antenna was tuned to as turned from 0 degrees to 360	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter) degrees to find th
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is v ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver syste	UT was placed on the top of a nate a 3 meter fully-anechoic charts at a 3 meter fully-anechoic charts away from the interference e top of a variable-height anten varied from one meter to four menaximum value of the field strent of the antenna are set to make hission, the EUT was arranged to be stuned to heights from 1 meter DMHz, the antenna was tuned to as turned from 0 degrees to 360 m was set to Peak Detect Function	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter) degrees to find th
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek nbotek Anbotek hotek Anbotek	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is v ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver syste Bandwidth with Maximum	UT was placed on the top of a nate a 3 meter fully-anechoic charts as a setermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four menaximum value of the field street of the antenna are set to make hission, the EUT was arranged to stuned to heights from 1 meter DMHz, the antenna was tuned to as turned from 0 degrees to 360 m was set to Peak Detect Funct Hold Mode.	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter) degrees to find th tion and Specified
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Notek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is w ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver syste Bandwidth with Maximum f. If the emission level of t	UT was placed on the top of a r at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make hission, the EUT was arranged to s tuned to heights from 1 meter OMHz, the antenna was tuned to as turned from 0 degrees to 360 m was set to Peak Detect Func Hold Mode. he EUT in peak mode was 10d	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter) degrees to find th tion and Specified B lower than the
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek nbotek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is w ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver syste Bandwidth with Maximum f. If the emission level of t limit specified, then testin	UT was placed on the top of a r at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make hission, the EUT was arranged to a tuned to heights from 1 meter OMHz, the antenna was tuned to as turned from 0 degrees to 360 m was set to Peak Detect Func Hold Mode. he EUT in peak mode was 10d g could be stopped and the pea	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter) degrees to find th tion and Specified B lower than the ik values of the EL
otek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek nbotek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is w ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver syste Bandwidth with Maximum f. If the emission level of t limit specified, then testin would be reported. Other	UT was placed on the top of a r at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make hission, the EUT was arranged to s tuned to heights from 1 meter OMHz, the antenna was tuned to as turned from 0 degrees to 360 m was set to Peak Detect Func Hold Mode. he EUT in peak mode was 10d g could be stopped and the pea- wise the emissions that did not	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter) degrees to find th tion and Specified B lower than the ik values of the EL have 10dB margin
ootek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek nbotek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is w ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver syste Bandwidth with Maximum f. If the emission level of t limit specified, then testin would be reported. Other would be re-tested one by	UT was placed on the top of a r at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make hission, the EUT was arranged to s tuned to heights from 1 meter OMHz, the antenna was tuned to as turned from 0 degrees to 360 m was set to Peak Detect Func Hold Mode. he EUT in peak mode was 10d g could be stopped and the pea wise the emissions that did not y one using peak or average me	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter) degrees to find th tion and Specified B lower than the ik values of the EU have 10dB margin
ootek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek nbotek Anbotek Anbotek Anbotek	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is w ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver syste Bandwidth with Maximum f. If the emission level of the limit specified, then testing would be reported. Otherwould be reported one by and then reported in a data	UT was placed on the top of a r at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make hission, the EUT was arranged to s tuned to heights from 1 meter OMHz, the antenna was tuned to as turned from 0 degrees to 360 m was set to Peak Detect Func Hold Mode. he EUT in peak mode was 10d g could be stopped and the peak wise the emissions that did not y one using peak or average me ta sheet.	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter) degrees to find th tion and Specified B lower than the ik values of the EU have 10dB margin ethod as specified
Test Method:	Above 1GHz: a. For above 1GHz, the E meters above the ground rotated 360 degrees to de b. The EUT was set 3 me which was mounted on th c. The antenna height is w ground to determine the r and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 30 and the rotatable table was maximum reading. e. The test-receiver syste Bandwidth with Maximum f. If the emission level of the limit specified, then testing would be reported. Otherwould be reported one by and then reported in a data	UT was placed on the top of a r at a 3 meter fully-anechoic cha etermine the position of the high ters away from the interference e top of a variable-height anten varied from one meter to four me naximum value of the field strer of the antenna are set to make hission, the EUT was arranged to s tuned to heights from 1 meter OMHz, the antenna was tuned to as turned from 0 degrees to 360 m was set to Peak Detect Func Hold Mode. he EUT in peak mode was 10d g could be stopped and the pea wise the emissions that did not y one using peak or average me	mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case to 4 meters (for the o heights 1 meter) degrees to find th tion and Specified B lower than the ik values of the EU have 10dB margin ethod as specified

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case.

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Transmitting mode, and found the X axis positioning which it is the worst





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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.

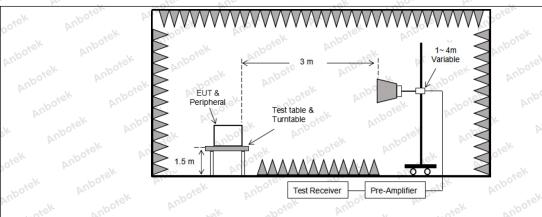
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions 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 Envir	ronment: Anbore Anbore Anboret Anboret Anboret Anboret
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.
rek Anborek	2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data
Test mode:	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Anbotek Anb Anbotek A	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.

7.2. Test Setup



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7.3. Test Data

Temperature:	24.1 °C	Humidity:	42 % M ^{bono}	Atmospheric Pressure:	101 kPa
202		. Pr.		NUN .	

	TM1/	Band: 5150-52	250 MHz / BW	: 20 / L		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
36.97	15.99 NO	52.96	68.20	o ^{rek} -15.24 pr ^b	, H by	Peak
39.04 M	15.99	55.03	68.20	-13.17	N ^{bote} V ^{At}	Peak
26.91	15.99	42.90	54.00	-11.10	Hoda	AVG
28.96	15.99	44.95	54.00	-9.05	Viek	AVG
	TM1/	Band: 5150-52	250 MHz / BW	: 20 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
37.42	16.43 M	53.85	68.20	-14.35	H .	ot ^{ex} Peak
40.36	16.43	56.79 M	68.20	*°11.41	V Pr	Peak
28.74	16.43	45.17	54.00	-8.83	H ^{rody}	AVG
29.64	16.43	46.07	54.00	-7.93	Vek	AVG
	(dBuV) 36.97 39.04 26.91 28.96 Reading (dBuV) 37.42 40.36	Reading (dBuV) Factor (dB/m) 36.97 15.99 39.04 15.99 26.91 15.99 28.96 15.99 28.96 15.99 TM1 / Reading (dBuV) 37.42 16.43 40.36 16.43	Reading (dBuV) Factor (dB/m) Result (dBuV/m) 36.97 15.99 52.96 39.04 15.99 55.03 26.91 15.99 42.90 28.96 15.99 44.95 TM1 / Band: 5150-52 Reading (dBuV) Factor (dB/m) Result (dBuV/m) 37.42 16.43 53.85 40.36 16.43 56.79	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) 36.97 15.99 52.96 68.20 39.04 15.99 55.03 68.20 26.91 15.99 42.90 54.00 28.96 15.99 44.95 54.00 TM1 / Band: 5150-5250 MHz / BW Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) 37.42 16.43 53.85 68.20 40.36 16.43 56.79 68.20	(dBuV)(dB/m)(dBuV/m)(dB/m)(dB)36.9715.9952.9668.20-15.2439.0415.9955.0368.20-13.1726.9115.9942.9054.00-11.1028.9615.9944.9554.00-9.05TM1 / Band: 5150-5250 MHz / BW: 20 / HReading (dBuV)Factor (dBm)Result (dBuV/m)Umit (dBuV/m)37.4216.4353.8568.20-14.3540.3616.4356.7968.20-11.41	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) Antenna Pol. 36.97 15.99 52.96 68.20 -15.24 H 39.04 15.99 55.03 68.20 -13.17 V 26.91 15.99 42.90 54.00 -11.10 H 28.96 15.99 44.95 54.00 -9.05 V TM1 / Band: 5150-5250 MHz / BW : 20 / H Reading (dBuV) Factor Result (dBuV/m) Limit (dBuV/m) Over limit (dBuV/m) Antenna Pol. 37.42 16.43 53.85 68.20 -14.35 H 40.36 16.43 56.79 68.20 -11.41 V

		TM2/	Band: 5150-52	250 MHz / BW	: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.92	o ^{ne} 15.99 M	51.91	68.20	-16.29	H	Peak
5150.00	37.31	15.99	53.30	68.20	-14.90	And V.K	Peak
5150.00	26.64	15.99	42.63	54.00	-11.37	Hang	AVG
5150.00	27.63	15.99	43.62	54.00	-10.38	Vooter	AVG
	•	TM2/	Band: 5150-52	250 MHz / BW	: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.74	o ^{ner} 16.43 M	54.17	68.20	-14.03	HVere	n ^{oore} Peak
5250.00	38.78	16.43	55.21	68.20	-12.99	NUL VK	Peak
5250.00	27.77	16.43	44.20	54.00	-9.80	AndH	AVG
5250.00	29.22	16.43	45.65	54.00	-8.35	Voton	AVG

Remark: 1. Result=Reading + Factor

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		TM2/	Band: 5150-52	50 MHz / BW	: 40 / L		
requency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.46	15.99	52.45	68.20	-15.75	Hoten	Peak
5150.00	38.31	15.99	54.30	68.20	-13.90	V_botek	Peak
5150.00	27.03	15.99	43.02	54.00	-10.98	H	AVG NO
5150.00	28.74	15.99	44.73 ¹⁰⁰	54.00	otek -9.27 no	V Anos	AVG
		TM2/	Band: 5150-52	50 MHz / BW	: 40 / H	**	
requency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.07	16.43	54.50	68.20	-13.70	MH KE	Peak
5250.00	36.94	16.43	53.37	68.20	-14.83	Vvotek	Peak
5250.00	28.28	16.43	44.71	54.00	-9.29	Ĥ ^r	AVG of
5250.00	29.48	16.43		54.00	-8.09	ek V Anbo	AVG
	sult=Reading +	N.	Band: 5150-52	50 MHz / BW	: 20 / L	potek Ant	70. W.
requency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.92	15.99	52.91	68.20	-15.29	Huntek	Peak
5150.00	38.67	15.99	54.66	68.20	-13.54	V	Peak
5150.00	26.55	15.99	42.54	54.00	-11.46	H Aupon	AVG
5150.00	28.74	15.99	44.73	54.00 mb	-9.27	Jok V Jok	o ^{ter} AVG pril
		ТМ3/	Band: 5150-52	50 MHz / BW	: 20 / H		
	Reading	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
requency (MHz)	(dBuV)		159,00	68.20	-13.90	AUD H	Peak
•	(dBuV) 37.87	16,43	54.30	00.20			
(MHz)		16.43 16.43	54.30 54.55	68.20	-13.65	Noorok	Peak
(MHz) 5250.00	37.87		1. C		A. 1. 1.		

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		TM3/I	Band: 5150-52	250 MHz / BW	:40/L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.87	15.99	51.86	68.20	-16.34	ArHote.	Peak
5150.00	36.32	15.99	52.31	68.20	-15.89	V botek	Peak
5150.00	26.05	15.99	42.04	54.00	-11.96	, Н "	AVG NOC
5150.00	26.79	15.99	42.78	54.00	-11.22 M	V And	AVG
		TM3/I	Band: 5150-52	250 MHz / BW	: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.02	16.43	54.45	68.20	-13.75	PULA	Peak
5250.00	37.17	16.43	53.60	68.20	-14.60	Viboter	Peak
5250.00	27.48	16,43	43.91	54.00	-10.09	H Not	AVG
5250.00	27.45	16.43	43.88	54.00	-10.12	V	AVG

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		TM1/	Band: 5725-58	50 MHz / BW	: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.74	17.05	54.79	74.00	-19.21	ArHote.	Peak
5725.00	38.97	17.05	56.02	74.00	-17.98	V	Peak
5725.00	28.72	17.05	45.77	54.00	-8.23	H,	AVG NO
5725.00	29.80	17.05	46.85	54.00	otek -7.15 ph	V PUL	AVG
		TM1/	Band: 5725-58	50 MHz / BW	: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	38.61	17.21	55.82	68.20	-12.38	Ant	Peak
5850.00	38.90	17.21	56.11 set	68.20	-12.09	Vnboter	Peak
5850.00	28.67	17.21	45.88	× 54.00	-8.12	H Sot	AVG
Total and			717- 720-		V	- D/-	
5850.00	28.77	× 17.21 00	45.98	54.00	otek -8.02 proc	V	AVG
1	28.77 esult=Reading +	- N.	45.98	54.00	-8.02 m	poter Am	AVG
1		Factor	45.98 Band: 5725-58	Joter pric	nbotek An	o ^{otek} An	,
1		Factor	hbotek Ant	Joter pric	nbotek An	V Antenna Pol.	,
emark: 1. Re Frequency	sult=Reading + Reading	Factor TM2 / Factor	Band: 5725-58	50 MHz / BW Limit	: 20 / L Over limit	Antenna	hotek
emark: 1. Re Frequency (MHz)	sult=Reading + Reading (dBuV)	Factor TM2 / Factor (dB/m)	Band: 5725-58 Result (dBuV/m)	50 MHz / BW Limit (dBuV/m)	: 20 / L Over limit (dB)	Antenna Pol.	Detector
emark: 1. Re Frequency (MHz) 5725.00	Reading + Reading (dBuV) 37.68	Factor TM2 / Factor (dB/m) 17.05	Band: 5725-58 Result (dBuV/m) 54.73	50 MHz / BW Limit (dBuV/m) 74.00	: 20 / L Over limit (dB) -19.27	Antenna Pol. H	Detector Peak
emark: 1. Re Frequency (MHz) 5725.00 5725.00	Reading + (dBuV) 37.68 38.14	Factor TM2 / Factor (dB/m) 17.05 17.05	Band: 5725-58 Result (dBuV/m) 54.73 55.19	50 MHz / BW Limit (dBuV/m) 74.00 74.00	: 20 / L Over limit (dB) -19.27 -18.81	Antenna Pol. H	Detector Peak Peak
Frequency (MHz) 5725.00 5725.00 5725.00	Reading (dBuV) 37.68 38.14 27.36	Factor TM2 / Factor (dB/m) 17.05 17.05 17.05 17.05	Band: 5725-58 Result (dBuV/m) 54.73 55.19 44.41	50 MHz / BW Limit (dBuV/m) 74.00 74.00 54.00 54.00	: 20 / L Over limit (dB) -19.27 -18.81 -9.59 -9.17	Antenna Pol. H V	Detector Peak Peak AVG
Frequency (MHz) 5725.00 5725.00 5725.00	Reading (dBuV) 37.68 38.14 27.36	Factor TM2 / Factor (dB/m) 17.05 17.05 17.05 17.05	Band: 5725-58 Result (dBuV/m) 54.73 55.19 44.41 44.83	50 MHz / BW Limit (dBuV/m) 74.00 74.00 54.00 54.00	: 20 / L Over limit (dB) -19.27 -18.81 -9.59 -9.17	Antenna Pol. H V	Detector Peak Peak AVG
Frequency (MHz) 5725.00 5725.00 5725.00 5725.00 Frequency	Reading (dBuV) 37.68 38.14 27.36 27.78 Reading	Factor TM2 / Factor (dB/m) 17.05 17.05 17.05 17.05 TM2 / Factor	Band: 5725-58 Result (dBuV/m) 54.73 55.19 44.41 44.83 Band: 5725-58 Result	50 MHz / BW Limit (dBuV/m) 74.00 74.00 54.00 54.00 54.00 54.00 54.00	: 20 / L Over limit (dB) -19.27 -18.81 -9.59 -9.17 : 20 / H Over limit	Antenna Pol. H V H V Antenna	Detector Peak Peak AVG AVG
emark: 1. Re Frequency (MHz) 5725.00 5725.00 5725.00 5725.00 Frequency (MHz)	Reading (dBuV) 37.68 38.14 27.36 27.78 Reading (dBuV)	Factor TM2 / Factor (dB/m) 17.05 17.05 17.05 17.05 TM2 / Factor (dB/m)	Band: 5725-58 Result (dBuV/m) 54.73 55.19 44.41 44.83 Band: 5725-58 Result (dBuV/m)	50 MHz / BW Limit (dBuV/m) 74.00 74.00 54.00 54.00 550 MHz / BW Limit (dBuV/m)	: 20 / L Over limit (dB) -19.27 -18.81 -9.59 -9.17 : 20 / H Over limit (dB)	Antenna Pol. H V H V Antenna Pol.	Detector Peak Peak AVG AVG Detector
emark: 1. Re Frequency (MHz) 5725.00 5725.00 5725.00 5725.00 Frequency (MHz) 5850.00	Reading (dBuV) 37.68 38.14 27.36 27.78 Reading (dBuV) 36.85	Factor TM2 / Factor (dB/m) 17.05 17.05 17.05 17.05 TM2 / Factor (dB/m) 17.21	Band: 5725-58 Result (dBuV/m) 54.73 55.19 44.41 44.83 Band: 5725-58 Result (dBuV/m) 54.06	50 MHz / BW Limit (dBuV/m) 74.00 74.00 54.00 54.00 54.00 54.00 550 MHz / BW Limit (dBuV/m) 68.20	: 20 / L Over limit (dB) -19.27 -18.81 -9.59 -9.17 : 20 / H Over limit (dB) -14.14	Antenna Pol. H V H V Antenna Pol. H	Detector Peak Peak AVG AVG Detector Peak

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		TM2/	Band: 5725-58	350 MHz / BW :	: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.26	17.05	54.31	74.00	- 19.69	Anbo H	Peak
5725.00	38.02	17.05	55.07	74.00	-18.93	Anto	Peak
5725.00	26.70	17.05	43.75	54.00	-10.25	HIDOLO	AVG
5725.00	ate ^k 28.16	17.05	45.21 NO	54.00	-8.79	ek V Anbore	AVG
5877 - 288	•	TM2/	Band: 5725-58	350 MHz / BW :	: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.62	17.21	54.83	68.20	-13.37	Hand	Peak
5850.00	38.12	17.21	55.33	68.20	-12.87	Votek	Peak
5850.00	27.75	17.21	44.96	54.00	-9.04	H wet	AVG
5850.00	28.96	17.21	46.17	54.00	ret -7.83 1001	Van	AVG
Remark: 1. R	esult=Reading +	Factor	Anbotek An	borc An-	nbotek Ant	poten Anb	hotek
		ТМ3/	Band: 5725-58	350 MHz / BW :	: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	36.98	17.05	54.03	74.00	-19.97	AH dek	Peak
5725.00	37.33	17.05	54.38 ⁰⁰	74.00	~ -19.62, pore	v Nupa	Peak
5725.00	28.02	17.05	45.07	54.00 M	-8.93	orek H unbo	AVG

28.63	17.05 M	45.68	54.00	-8.32	Vyater	o ^{ot®®} AVG M
	TM3/I	Band: 5725-58	50 MHz / BW	: 20 / H		
Reading	Factor	Result	Limit	Over limit	Antenna	Detector
(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Pol.	Delector
37.72	17.21	54.93	68.20	-13.27	H weter	Peak
38.68	مري 17.21 <u>م</u>	55.89	68.20	-12.31	V	Peak
27.67 M ⁰	17.21	44.88	54.00	-9.12	stek H Anbu	AVG
28.59	17.21 N	45.80	54.00	-8.20	e ^k V	AVG N
	Reading (dBuV) 37.72 38.68 27.67	TM3 / I Reading (dBuV) Factor (dB/m) 37.72 17.21 38.68 17.21 27.67 17.21	TM3 / Band: 5725-58 Reading (dBuV) Factor (dB/m) Result (dBuV/m) 37.72 17.21 54.93 38.68 17.21 55.89 27.67 17.21 44.88	TM3 / Band: 5725-5850 MHz / BW Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) 37.72 17.21 54.93 68.20 38.68 17.21 55.89 68.20 27.67 17.21 44.88 54.00	TM3 / Band: 5725-5850 MHz / BW : 20 / H Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) 37.72 17.21 54.93 68.20 -13.27 38.68 17.21 55.89 68.20 -12.31 27.67 17.21 44.88 54.00 -9.12	TM3 / Band: 5725-5850 MHz / BW : 20 / H Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) Antenna Pol. 37.72 17.21 54.93 68.20 -13.27 H 38.68 17.21 55.89 68.20 -12.31 V 27.67 17.21 44.88 54.00 -9.12 H

Remark: 1. Result=Reading + Factor

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Le. Hotline of 400-003-0500 www.anbotek.com.cn



		TM3/	Band: 5725-58	350 MHz / BW	:40/L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	35.97	17.05	53.02	74.00	-20.98	Anbe Hek	Peak
5725.00	37.60	17.05	54.65	74.00	-19.35	Anto	Peak
5725.00	27.30	17.05	44.35	54.00	-9.65	H ^{loolo}	AVG
5725.00	one th 28.02 m ^{bo}	17.05	45.07	54.00	-8.93	ek V Anbore	AVG
		ТМ3/	Band: 5725-58	350 MHz / BW	: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.35	17.21	54.56	68.20	-13.64	Hdna	Peak
5850.00	38.03	17.21	55.24	68.20	-12.96	Noorer	Peak
5850.00	27.32	17.21	44.53	54.00 ⁰⁰⁰	-9.47	K Hanboter	AVG
5850.00	26.82	otek 17.21 And	44.03	54.00 mb	-9.97		AVG AVG

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8. Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)	Anbore Ant borek Ant	otek Anbo
Anto Anbotek Anbotek Anbotek Anbo	strength limits set forth in	w 1 GHz must comply with the get § 15.209. here in this subpart, the emissior	
	intentional radiator shall r following table:	ot exceed the field strength level	s specified in the
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
	1.705-30.0 30-88	30 100 **	30 3
Test Limit:	88-216 216-960	150 ** 200 **	3 Moore 3
not hotek	Above 960	500	3 Antore
Anbotek Anbotek Anbotek Anbotek Anbotek	The emission limits show employing a CISPR quas 90 kHz, 110–490 kHz and	ve, the tighter limit applies at the n in the above table are based on i-peak detector except for the free I above 1000 MHz. Radiated emis sed on measurements employing	measurements quency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020, section	on 12.7.4, 12.7.5	And stek and
ek Anbotek Anb	meters above the ground	UT was placed on the top of a rot at a 3 meter semi-anechoic chan	nber. The table
	b. The EUT was set 3 or antenna, which was mou	to determine the position of the h 10 meters away from the interferent nted on the top of a variable-heigh varied from one meter to four met	nce-receiving nt antenna tower.
Anbotek Anbot	ground to determine the r	naximum value of the field streng of the antenna are set to make th	th. Both horizonta
Procedure:	and then the antenna was	nission, the EUT was arranged to s tuned to heights from 1 meter to	4 meters (for the
	and the rotatable table wa maximum reading.	0MHz, the antenna was tuned to as turned from 0 degrees to 360 c	legrees to find the
Anbotek Anbotek	Bandwidth with Maximum f. If the emission level of t	m was set to Peak Detect Functio Hold Mode. he EUT in peak mode was 10dB g could be stopped and the peak	lower than the
Am		wise the emissions that did not ha	

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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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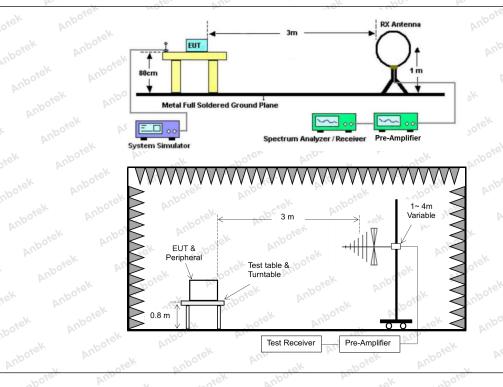
201	botek	below the limit need not be reported.
	Anbore Ant	3. As shown in this section, for frequencies above 1GHz, the field strength
	potek Anboro	limits are based on average limits. However, the peak field strength of any
	And k botek	emission shall not exceed the maximum permitted average limits specified
1	Anboten And	above by more than 20 dB under any condition of modulation. For the
	A. Anbot	emissions whose peak level is lower than the average limit, only the peak
310	Anbo	measurement is shown in the report.
	tek stoten Ant	4. The disturbance above 18GHz were very low and the harmonics were the
00	or Arr	highest point could be found when testing, so only the above harmonics had
	botek Anbort	been displayed.

8.1. EUT Operation

Operating Environment:

DA.	
Anbotek Ditek 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
nbore Ann	modulation type. All bandwidth and data rates has been tested and found the data
Test mode:	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Anbotek Anbotek	3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the
sek subotek	report. And the holder And the holde

8.2. Test Setup



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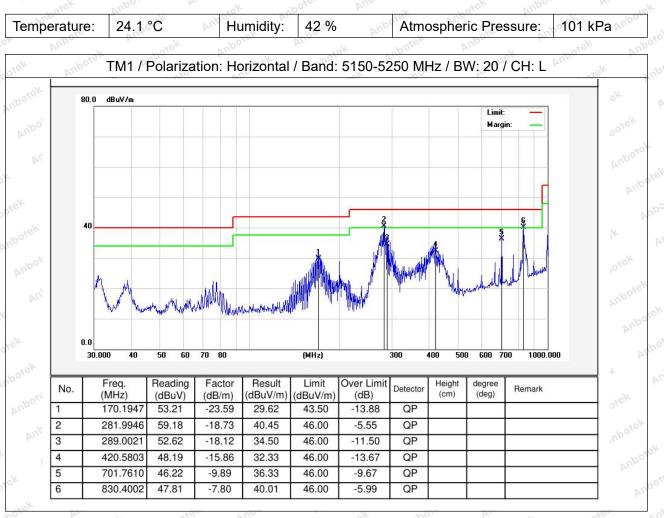




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8.3. Test Data

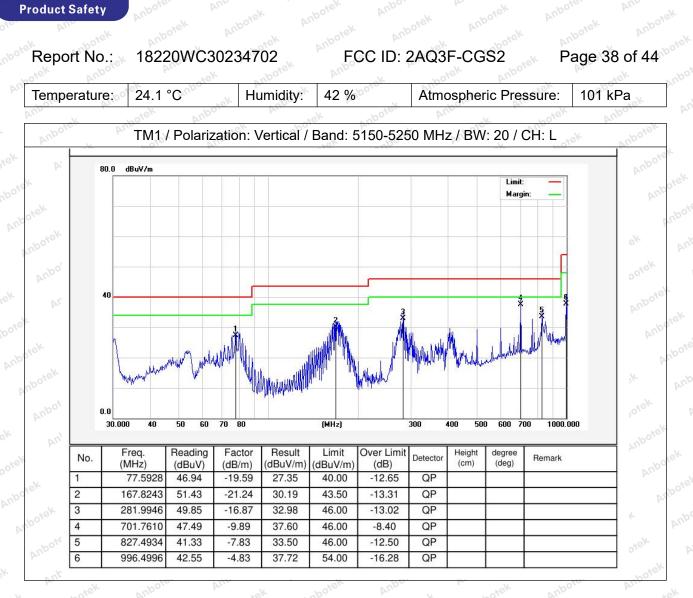
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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Note:Only record the worst data in the report.

Anbotek

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9. Undesirable emission limits (above 1GHz)

and the second second	hore All.	ster wat		to the stand				
Test Requirement:	47 CFR Part 15.407(b) 47 CFR Part 15.407(b) 47 CFR Part 15.407(b)	(4) moter	Anbotek Anbo	hootek Anbotek				
K Anbotek Anboi	For transmitters operat of the 5.15-5.35 GHz b							
ore Ant Inbotek Anbotek	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							
Anbotek Anbotek	above or below the bar edge increasing linearl below the band edge, a increasing linearly to a	y to a level of 15.6 dB and from 5 MHz abov	3m/MHz at 5 MH re or below the b	Iz above or and edge				
An wotek And	MHz	MHz	MHz	GHz				
ster Anbo	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15				
nbotek Anbote. P	10.495-0.505	16.69475- 16.69525	608-614	5.35-5.46				
Anbotek Anbotek	2.1735-2.1905	16.80425- 16.80475	960-1240	7.25-7.75				
Anbo	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5				
Anboten Anbo	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2				
tek Anbotek Anbr	4.20725-4.20775	73-74.6	1645.5- 1646.5	9.3-9.5				
ek sbotek A	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7				
Test Limit:	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4				
lest Limit.	6.31175-6.31225	123-138	2200-2300	14.47-14.5				
Anbore Ant	8.291-8.294	149.9-150.05	2310-2390	15.35-16.2				
Anbotek Anbot	8.362-8.366	156.52475- 156.52525	2483.5-2500	17.7-21.4				
ek unboten And	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12				
K hotek Al	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0				
poter And	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8				
hotek Anbore.	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5				
And k hotek	12.57675-12.57725	322-335.4	3600-4400	(²) Anthony				
Anbote, Ant	13.36-13.41	rek spotek	Anbore. And	Lotek Anbotek				
				WO. Pr				

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35apply to these measurements.

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tek Anbotek Anbotek tek Anbotek Anbo	Frequency (MHz) 0.009-0.490 0.490-1.705	Field strength (microvolts/meter)	Measurement distance
			(meters)
	0 400 1 705	2400/F(kHz)	300 otok
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30 And	stek 30 mbor
ooten And	30-88	100 **	3 John
	88-216	150 **	hora Anto
	216-960	200 **	3 ek nbot
	Above 960	500	3
And	0	paragraph (g), fundamental em	
	sections of this part, e.g. In the emission table abo The emission limits show employing a CISPR quas 90 kHz, 110–490 kHz an these three bands are ba	in these frequency bands is per , §§ 15.231 and 15.241. ove, the tighter limit applies at t vn in the above table are based si-peak detector except for the id above 1000 MHz. Radiated e ased on measurements employ	he band edges. I on measurements frequency bands 9- emission limits in
k notek Ant	detector.	poten Anbo k notel	Anbort
Test Method:	ANSI C63.10-2020, sect	ion 12.7.4, 12.7.6, 12.7.7	tek anbotek
	meters above the ground rotated 360 degrees to d b. The EUT was set 3 me which was mounted on th c. The antenna height is ground to determine the and vertical polarizations d. For each suspected en and then the antenna was test frequency of below 3	EUT was placed on the top of a d at a 3 meter fully-anechoic ch letermine the position of the hig eters away from the interference he top of a variable-height anter varied from one meter to four r maximum value of the field stress of the antenna are set to make mission, the EUT was arranged as tuned to heights from 1 meter 30MHz, the antenna was tuned vas turned from 0 degrees to 36	amber. The table w thest radiation. the receiving antenna enna tower. meters above the ength. Both horizont e the measurement to its worst case or to 4 meters (for the to heights 1 meter)
Procedure:	maximum reading.	em was set to Peak Detect Fun	Anbore An

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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.

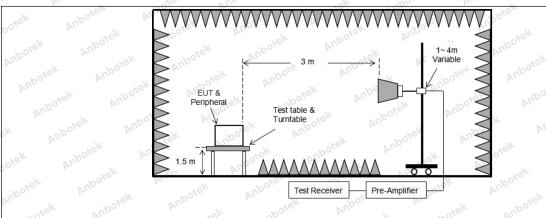
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions 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 Envir	ronment: And
Anbotek Anbotek Anbotek	1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report. 2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data
Test mode:	rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Anbotek Anb Anbotek A	3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

9.2. Test Setup



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9.3. Test Data

Temperature:	24.1 °C	Humidity:	42 % pro	Atmospheric Pressure:	101 kPa
A OM		· /×·		- CV	

		TM1 / Ban	d: 5150-525	0 MHz / BW:	20 / CH: L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10360.00	31.48	o ^{rek} 23.81 km ^b	55.29	68.20	-12.91 And	V	po ^{re} Peak
15540.00	32.81	28.68	61.49	68.20	-6.71	NDO V	Peak
10360.00	31.87	23.81	55.68	68.20	-12.52	Anbord	Peak
15540.00	32.89	28.68	61.57	68.20	-6.63	,Hoter	Peak
10360.00	20.860	23.81	44.67	54.00	-9.33	V botek	AVG
15540.00	21.943	28.68	50.62	54.00	-3.38	V	AVG NO
10360.00	21.056	23.81	44.87	54.00	over -9.13 prof	H Ann	AVG
15540.00	21.577	28.68	50.26	54.00	-3.74	nbotek H Ar	AVG
	•	TM1 / Ban	d: 5150-5250	MHz / BW:	20 / CH: M	<u>r</u>	

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector	
10400.00	30.84	23.81	54.65	68.20	-13.55	Kupore	Peak	
15600.00	32.34	29.13	61.47	68.20	-6.73	rek V nbot	Peak	
10400.00	31.36	^{ek} 23.81 m ^{bo}	55.17	68.20	-13.03	H	pot ^{eV} Peak pnb	
15600.00	32.41	29.13	o ^{ote} 61.54 ^{MA}	68.20	-6.66	No. H	Peak	
10400.00	21.130	23.81	44.94	54.00	-9.06	AnbotV	AVG	
15600.00	22.063	29.13	51.19	54.00	-2.81	Mer	AVG	
10400.00	21.046	23.81	44.86	54.00	-9.14	Hotek	AVG	
15600.00	21.657	29.13	50.79	54.00	-3.21	H	AVG	

TM1 / Band: 5150-5250 MHz / BW: 20/ CH: H

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10480.00	30.41	23.80	54.21	68.20	-13.99	AND Vek	Peak
15720.00	31.82	30.03	61.85	68.20	-6.35	Anbo	Peak
10480.00	31.00	23.80	54.80	68.20	-13.40	Hooter	Peak
15720.00	31.32	30.03	61.35	68.20	-6.85	K H nbote	Peak
10480.00	19.80	23.80	43.60	54.00	-10.40	V	pret AVG Anbo
15720.00	20.82	30.03	50.85	54.00	otek-3.15 pm	V	AVG
10480.00	20.26	23.80	44.06	54.00	-9.94	Anbote H P	AVG
15720.00	20.45	30.03	50.48	54.00	-3.52	nb HK	AVG

Remark:

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

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Product Safety

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		TM1 / B	and: 5725-58	850 MHz / B\	N: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11490.000	28.56	23.36	51.92	68.20	-16.28	N° VA	Peak
17235.000	29.94	31.97	61.91	68.20	-6.29	K VAnbore	Peak
11490.000	29.06	23.36	52.42	68.20	-15.78	otek H nb	Peak
17235.000	30.14	o ^{tek} 31.97 ph	62.11	68.20	o ^{ster} -6.09 Ant	H	Peak
11490.000	17.89	23.36	41.25	54.00	-12.75	nbor V	AVG
17235.000	18.68	31.97	50.65	54.00	-3.35	AnboV	AVG
11490.000	18.09	23.36	41.45	54.00	-12.55	, Hotek	AVG
17235.000	18.09	31.97	50.06	54.00	-3.94	H botek	AVG
		TM1 / B	and: 5725-58	350 MHz / BV	V: 20 / M		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11570.000	29.14	23.42	52.56	68.20	-15.64	V	Peak
17355.000	29.82	32.18	62.00	68.20	-6.20	Anbo	Peak
11570.000	29.26	23.42	52.68	68.20	-15.52	H ⁿ 4	Peak
17355.000	30.23	32.18	62.41	68.20	-5.79	hoter	Peak
11570.000	19.157	23.42	42.58	54.00	-11.42	ek V nbot	AVG
17355.000	19.002	32.18 m ^o	51.18	54.00	-2.82 M	V	ote ^x AVG
11570.000	19.079	23.42	42.50 M	54.00	-11.50	Noon H An	AVG
17355.000	18.472	32.18	50.65	54.00	-3.35	Anboten	AVG
		TM1 / B	and: 5725-58	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
11650.000	28.65	23.49	52.14	68.20	-16.06	ek V Anbor	Peak
17475.000	30.06	32.39	62.45	68.20 M	-5.75	otek V Ant	Peak
11650.000	29.00	23.49	52.49	68.20	00 ⁴ -15.71	H	Peak
17475.000	29.84	32.39	62.23	68.20	-5.97	Anbo, H	Peak
11650.000	18.23	23.49	41.72	54.00	-12.28	Anopio	AVG
17475.000	18.80	32.39	51.19	54.00	-2.81	Noter	AVG
11650.000	18.26	23.49	41.75	54.00	-12.25	H H bote	AVG
17475.000	18.44	32.39	50.83	54.00	-3.17 nbox	H	AVG N

Remark:

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 ----

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