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# FCC Test Report

**Cruise Cloud Technology (Shenzhen) Applicant** 

**Corporation Limited** 

West 3F, Block 2, Vision Business Park, Tech.

South Road, High-tech Industrial Park, Address

Shenzhen, China

**Product Name** Dash cam

**Report Date** : Feb. 05, 2024

Shenzhen Anbotek Con



ce Laboratory Limited





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# TEST REPORT

Applicant : Cruise Cloud Technology (Shenzhen) Corporation Limited

Manufacturer : Cruise Cloud Technology (Shenzhen) Corporation Limited

Product Name : Dash cam

Test Model No. : S1 Pro

Reference Model No. : S1, S1 Ultra

Trade Mark : MIOFIVE

Rating(s) : Input: 5V-

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. 15, 2024
Date of Test: Jan. 16, 2024 to Jan. 31, 2024
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Ella Liang
Prepared By: Mark Andrew Andre
Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek
And Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Approved & Authorized Signer
Approved & Authorized Signer:
otek Anbor (Edward Pan)





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# **Revision History**

	Report Version	Description	Issued Date
	Anbore R00 potek Ant	Original Issue.	Feb. 05, 2024
70	Anbotek Anbotek	Anbotek Anbotek Anbotek	K abotek Anbotek Ant
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### 1. General Information

### 1.1. Client Information

Applicant		Cruise Cloud Technology (Shenzhen) Corporation Limited
Address	:	West 3F, Block 2, Vision Business Park, Tech. South Road, High-tech Industrial Park, Shenzhen, China
Manufacturer	:	Cruise Cloud Technology (Shenzhen) Corporation Limited
Address	:	West 3F, Block 2, Vision Business Park, Tech. South Road, High-tech Industrial Park, Shenzhen, China
Factory	:	Cruise Cloud Technology (Shenzhen) Corporation Limited
Address	:	West 3F, Block 2, Vision Business Park, Tech. South Road, High-tech Industrial Park, Shenzhen, China

# 1.2. Description of Device (EUT)

1.2. Description	×1	ok hotek Anbo protek anbore An
Product Name	:	Dash cam
Test Model No.	:	S1 Pro Anborek Anborek Anborek Anborek
Reference Model No.	:	S1, S1 Ultra Note: All samples are the same except the model number, so we prepare "S1 Pro" for test only.
Trade Mark	:	MIOFIVE Anbotek Anbotek Anbotek Anbotek Anbo
Test Power Supply	:	DC 12V Anborek Anborek Anborek Anborek Anborek An
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A orek Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency		802.11a/n(HT20)/ac(VHT20): 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): 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;  802.11ac(VHT80): U-NII Band 1: 5210MHz; U-NII Band 2A: 5290MHz; U-NII Band 2A: 5290MHz; U-NII Band 3: 5775MHz
Number of Channel	ŀ	802.11a/n(HT20)/ac(HT20): U-NII Band 1: 4; U-NII Band 2A: 4;







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10, by,		ater and aterial ateri
		U-NII Band 2C: 11;
		U-NII Band 2C: 11; U-NII Band 3: 5;
		Ly Ster Ville Ster Po. W.
		802.11n(HT40)/ac(HT40):
		U-NII Band 1: 2;
		U-NII Band 2A: 2;
		U-NII Band 2C: 5;
		U-NII Band 2C: 5; U-NII Band 3: 2;
		born All which and her solor
		802.11ac(HT80): U-NII Band 1: 1;
		U-NII Band 2A: 1;
		U-NII Band 2C: 2;
		U-NII Band 3: 1
		802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM);
Modulation Type	:	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);
		802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Antenna Type	:	FPC Antenna
		Wi-Fi 5.2G: 3.61dBi
Antonno Coin/Dools		Wi-Fi 5.3G: 3.7dBi
Antenna Gain(Peak)	:	Wi-Fi 5.6G: 3.7dBi
		Wi-Fi 5.8G: 2.61dBi
		Outdoor AP Point-to-point AP
Device Type		⊠ Client
		r rote, Mun sek vino, by r
TPC Function		With TPC □ Without TPC
DFS Type		Master
Damanto V		Ingree Williams
Remark:	fice	ation are provided by customer.
		eatures description, please refer to the manufacturer's specifications or the
(Z) FOI a more detaile	un	eatures description, please refer to the manufacturer's specifications of the

User's Manual.





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# 1.3. Auxiliary Equipment Used During Test

Title		Manufacturer	Model No.	Serial No.
	AX1500 Wi-Fi 6 Router	Micronet Union Technology(Chengdu) Co., Ltd	T262-T21D (FCC ID: 2A22E-WWYLT262)	upotek / Aupotek





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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 100 100 100 100 100 100 100 100 100 1	54	5270	tek 58 mbote	5290
56	5280	62	5310	and and	otek /Anbote
60 Mek	5300	or / Andre	k Wooles	Aug	hbotek / Anbor
64	5320	Auport Am	otek / Aupoter	And	Anbotek/ Ant

Operation Band: U-NII Band 2C

oporation band.	O IVIII Dania 20				
Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel Mark	Frequency (MHz)
100	5500	102	5510	106	700 5530 And
104 noon	5520	Anbor 110	5550 Anbore	122	5610
nbotek 108 Anbo	5540	118	5590	yek Aupo	Borek
Anbot 112 Anb	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 O	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	ick 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
The same of the sa	272		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 Channel	Frequency (MHz)
149	5745	botek 151 Anbotes	5755	155	5775
153	5765	159 knbo	5795	Anbytek	Aupo ofely
botek 157 Anbote	5785	Anbotek An	port / All	sk Wpotek	Aupo
abote 161 Anto	5805	Anbbrek.	Anbore Am	ootek / Anbotek	And
165	5825	ek Inbotek	Aupo, I Ar	botek / Anbote	Androk

### 1.5. Description of Test Modes

Pretest Modes	Descriptions
nbotek Anbote Anbote  Anbotek Amaria	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.
Anborek TM2 Anborek	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.
hotek 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.
Anborek TM4	Keep the EUT works in normal operating mode and connect to companion device

### 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB Anbot Anbotek Anbotek Anbotek
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Occupied Bandwidth	925Hz botek Anbotek Anbotek
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	notek / Anborer	And N
Duty Cycle	Mode1,2,3	P
Maximum conducted output power	Mode1,2,3	P PARIS
Power spectral density	Mode1,2,3	P
Emission bandwidth and occupied bandwidth	Mode1,2,3	inpos Pk
Channel Move Time, Channel Closing Transmission Time	Mode4	Anbot Prick
DFS Detection Thresholds	Mode4	P
Band edge emissions (Radiated)	Mode1,2,3	Panta
Undesirable emission limits (below 1GHz)	Mode1,2,3	P An
Undesirable emission limits (above 1GHz)	Mode1,2,3	nbote P
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anborek

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.
- 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

Cond	ucted Emission at A	C power line	Anbore	k bus	Anboiek	Aup. Otek
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
2 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 4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek /Anbotek	k Aupor

**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	N/A	2023-10-16	2024-10-15	
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19	
An 30te	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25	
4n/2	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	





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Band	edge emissions (Ra	diated)	anboter	Aug	hoiek	Aupo, b
	sirable emission limi		hoiek	Aupore.	Vur Tok	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
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Ans	Aupotek
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
<sup>*</sup> 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Unde	Indesirable emission limits (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			
Anistel	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 door	N. Anborra	k Anbotek			

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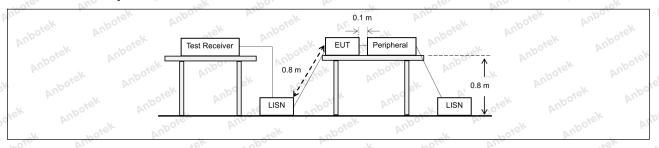
### 2. Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)	ek hotek Anb	ote, but
Yung sek spotek	Frequency of emission (MHz)	Conducted limit (dBµV)	hotel Anbe
Anbo, Ai,	And Andrew And	Quasi-peak	Average
K- Lotek Anbo	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 And	56 ° A	46 300 ter
	5-30 And And	60 hotek Anbor	50
otek Anbotek	*Decreases with the logarithm of the	ne frequency.	Anbo
Test Method:	ANSI C63.10-2020 section 6.2	Anbo sek abo	stek Anbore

### 2.1. EUT Operation

N.	Operating Envir	onment:	Aupa	upotek	Aupor	bir. Potek	Anbore	VUP
	Test mode:	1 Anbotek	Anbo	hotek	Anboro	Yu. Polek	Anbotek	VUp

#### 2.2. Test Setup



#### 2.3. Test Data

This is a Car device, which is intended to be installed on a vehicle only, not connect to the public utility under normal use.15.207 test is exempted.



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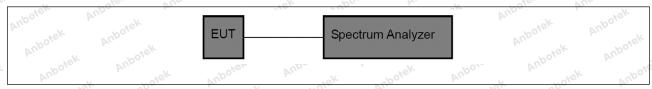
# 3. Duty Cycle

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

## 3.1. EUT Operation

Operating Envi	ronment: Anbor All tek poter Anbor Manager
ek Anbotek	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.

# 3.2. Test Setup



#### 3.3. Test Data

Temperature: 25.2	2 °C Humidity:	45 %	Atmospheric Pressure:	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) 47 CFR Part 15.407(a)(3)(i)
tek Anbotek Anbote Anbotek Anbote	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 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 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: Anbotek	For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that 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,
Test Method:	point-to-point operations.  ANSI C63.10-2013, section 12.4
Procedure:	Refer to ANSI C63.10-2020 section 12.4

# 4.1. EUT Operation

Operating Env	vironment: Anbore Anbore Anbore Anborek Anborek
ek Anbotek	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.
k Anbotek	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



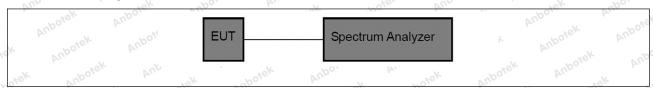




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the data of worst case is recorded in the report.

#### 4.2. Test Setup



#### 4.3. Test Data

- A/	1.0,	V 5/2		V 1-01	12/1
0.0	05.00	V 1 1 1 11 (V)	4 = 0/ 0/		404110
I lemperature	25.2°C	Humidity	45 %	Atmospheric Pressure:	101 602
Tellibelatule	7. M ZU.Z U	i i i i i i i i i i i i i i i i i i i	1 40 /0 av	Alliosphelic i lessule.	IUIKFA
	- // -	1 - O 1	- LOS	200	V

Please Refer to Appendix for Details.





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# 5. Power spectral density

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 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. 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.  ANSI C63.10-2020, section 12.6	apoir All	hoter Anbo Frek hoter An to hoter
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 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. 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.  ANSI C63.10-2020, section 12.6	Test Requirement:	47 CFR Part 15.407(a)(2)
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 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	Anbotek	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
sek John K. J. Jake Mills Salk John K.	Test Limit: Anbotek  Anbotek	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 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
Procedure: Refer to ANSI C63.10-2020, section 12.6	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:	Ando	botek Anb	ote Vue	sielt .	nbotek
Test mode:	1: 802.11a mode: Intransmitting mode of found the data rate recorded in the rep 2: 802.11n mode: Intransmitting mode of transmitting mode of been tested and for worst case is record 3: 802.11ac mode: continuously transmitting data rates has been the data of worst case is record that rates has been the data of worst case is record that rates has been the data of worst case is record that rates has been the data of worst case is record to the data of worst cas	with 802.11a module @ 6Mbps is the wort.  Keep the EUT conribit 802.11n module with 802.11n module with the data rate (ded in the report.  Keep the EUT consisting mode with 8 notested and found	ulation type. All vorst case. Only nect to AC power lation type. All @ MCS0 is the nect to AC power lation. AC power lation to AC power lation.	data rates has y the data of w er line and wor bandwidth and worst case. O wer line and wo lation type. All	been tested orst case is the in continual didata rates only the data orks in bandwidth	ed and s nuously s has a of

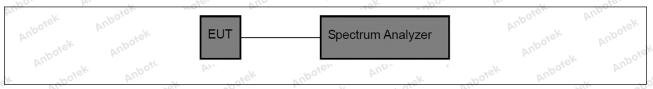






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#### 5.2. Test Setup



#### 5.3. Test Data

Temperature:	25.2 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
. 2/0.12 2 : 2:12:12.12.1			10 1/10	, m	10.111

Please Refer to Appendix for Details.





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# 6. Emission bandwidth and occupied bandwidth

- spotek Anbote	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	Anbo Anbore Anbore Anbore Anbore
Aupore Am	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Anbotek Anb	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Limit:	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands,
Ver Potek	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
Pupo, k. Polsky	- 400, by, A 2046, PULL SK 400,
	Emission bandwidth: a) Set RBW = approximately 1% of the emission bandwidth.
	b) Set the VBW > RBW.
	c) Detector = peak.
	d) Trace mode = max hold.
	e) Measure the maximum width of the emission that is 26 dB down from the
	peak of the emission.
	Compare this with the RBW setting of the instrument. Readjust RBW and
	repeat measurement
	as needed until the RBW/EBW ratio is approximately 1%.
	as needed until the NEW/LEW ratio is approximately 176.
anboten Anbo	Occupied bandwidth:
	a) The instrument center frequency is set to the nominal EUT channel center
	frequency. The
	frequency span for the spectrum analyzer shall be between 1.5 times and
	5.0 times the OBW.
	b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to
	5% of the OBW,
	and VBW shall be approximately three times the RBW, unless otherwise
- Intek Anbor	specified by the
Procedure:	applicable requirement.
	c) Set the reference level of the instrument as required, keeping the signal
	from exceeding the
	maximum input mixer level for linear operation. In general, the peak of the
	spectral envelope
	shall be more than [10 log (OBW/RBW)] below the reference level. Specific
	guidance is given
Anbe	in 4.1.5.2.
aboten And	d) Step a) through step c) might require iteration to adjust within the
	specified range.
	e) Video averaging is not permitted. Where practical, a sample detection and
	single sweep mode
	shall be used. Otherwise, peak detection and max hold mode (until the trace
	stabilizes) shall be
un of wotek	used.
	f) Use the 99% power bandwidth function of the instrument (if available) and
	report the measured
	bandwidth.
	g) If the instrument does not have a 99% power bandwidth function, then the
	trace data points are









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

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

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

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

the difference between these two frequencies.

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

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

be reported in addition to the plot(s).

6 dB emission bandwidth:

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

#### 6.1. EUT Operation

#### **Operating Environment:**

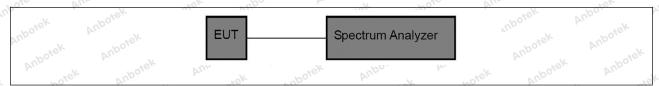
1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

#### 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.

#### 6.2. Test Setup











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#### 6.3. Test Data

	-0100-	The state of the s	V	VII.	200	
Temperature:	0E 2 °C	Lumidity: *2	1 E 0/	Atmospheric Pressure:	101 kDa	
remperature.	25.2 C	Humidity: "	1 43 70	Aumosphenic Pressure.	IUIKPA	

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:  Anborek  Anborek  Anborek  Anborek  Anborek	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> . It 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</i>
	Device on the test Channel for the entire period of the test.  4. At time T0 the Radar Waveform generator sends a Burst of pulses for one of the Radar Type 0 in <b>Table 5</b> at levels defined in <b>Table 3</b> , on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is a or above the DFS Detection Threshold, accounting for equipment
	variations/errors.  5. Observe the transmissions of the UUT at the end of the radar <i>Burst</i> on the
	Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Mayor Time). Measure and record the Channel Mayor Time and Channel
	<ul> <li>Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs. Figure 17 illustrates Channel Closing Transmission Time.</li> <li>6. When operating as a Master Device, monitor the UUT for more than 30 minutes following instant T2 to verify that the UUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.</li> <li>7. In case the UUT is a U-NII device operating as a Client Device with In-Service Monitoring, perform steps 1 to 6.</li> </ul>

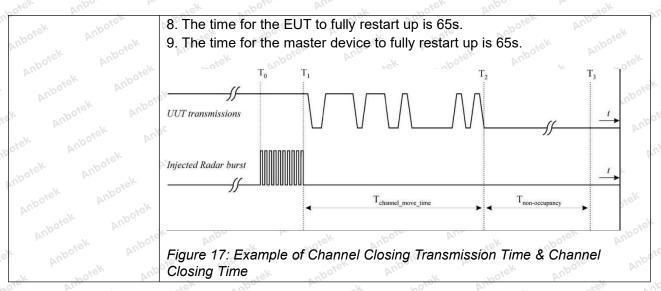








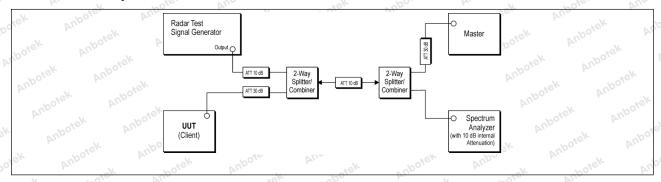
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#### 7.1. EUT Operation

Operating En	vironment:	abořek	Anbores Anb	otek anboi	tek Aupos
Test mode:	4: Normal Operating:	Keep the EUT	T works in norm	al operating mod	de and connect to
rest mode.	companion device				in which

#### 7.2. Test Setup



### 7.3. Test Data

Temperature:	25.2 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



Hotline

www.anbotek.com.cn

400-003-0500



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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 En	vironment:						And
Test mode:	4: Normal	Operating:	Keep the EU	Γ works in n	ormal operating	mode and c	onnect to
rest mode.	companio	n device					· abolie

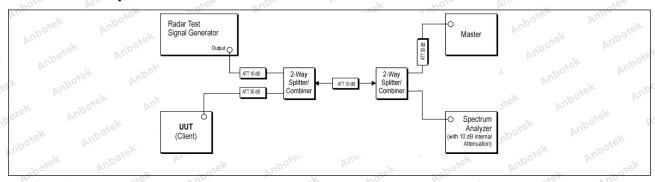






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#### 8.2. Test Setup



#### 8.3. Test Data

e)	Temperature:	25.2 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
		= 0.= 0,e^	Community : 1	10 10	, 5, times   1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	13.64 2

Please Refer to Appendix for Details.





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### 9. Band edge emissions (Radiated)

	woick Aupore.	47 CFR Part 15.407(b)(1)	Aupo.	hotek.	Anbore P	'un
		47 CFR Part 15.407(b)(2)	aboien			Aupo,
	Test Requirement:	47 CFR Part 15.407(b)(3)		aboter		~ote
	Ar. stek anbort	47 CFR Part 15.407(b)(4)				And
16	K Aupo, K	47 CFR Part 15.407(b)(10)	ek abote	K Aupo.	-k hotel	AUD
	16, 14,			_ lx	8, 70	-

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 increasing linearly to a level of 27 dBm/MHz at the band edge.

Toct	П	im	iŧ٠

MHz M	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	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	Vupo, Vi	de de	View 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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rek spotek			hese frequency bands sha
			encies equal to or less tha
	1000 MHz, compliance w		
	using measurement instr		
	detector. Above 1000 MH		
isotek anb			ge value of the measured
And	emissions. The provision	s in § 15.35apply to the	se measurements.
	nck . shotek At	ipo, h. stek	Anbore. And
	Except as provided elsev		
ofer Ande		not exceed the field stre	ngth levels specified in the
	following table:	Aupo, Ai,	And And
	Frequency (MHz)	Field strength	Measurement
	stek Anbore	(microvolts/meter)	distance
	Her Augo	ek anbore Arr	(meters)
	0.009-0.490	2400/F(kHz)	300
"ofek Ar	0.490-1.705	24000/F(kHz)	30,000
Ano	1.705-30.0	30	And 30 hotek
	30-88	100 **	anbore 3 And
	88-216	150 **	re's anbore
	216-960	200 **	Anbe 3
	Above 960	500	ek sp3ek Anb
	** Except as provided in	naragraph (g) fundame	ntal emissions from
	intentional radiators oper	ating under this section	shall not be located in the
Ande			
	frequency bands 54-72 N		
			s is permitted under other
	sections of this part, e.g.,	§§ 15.231 and 15.241.	Vupose Vur
	In the emission table abo		
			based on measurements
			or the frequency bands 9–
	90 kHz, 110–490 kHz and		
		ised on measurements e	employing an average
Aug Sek	201	otek Anbore An	atek nipotek Ar
est Method:	ANSI C63.10-2020, secti	on 12.7.4, 12.7.6, 12.7.7	Aupo, W. Wolek
	Above 1GHz:		
	a. For above 1GHz, the E	EUT was placed on the t	op of a rotating table 1.5
	meters above the ground	at a 3 meter fully-anech	noic chamber. The table wa
	rotated 360 degrees to de	etermine the position of	the highest radiation.
	b. The EUT was set 3 me	eters away from the inter	ference-receiving antenna
	which was mounted on th	ne top of a variable-heig	nt antenna tower.
	c. The antenna height is		
rocoduro:			o make the measurement.
ocedule.	d. For each suspected er		
notek hotek	1(0.1	- AV	1 meter to 4 meters (for the
	test frequency of below 3		
	and the rotatable table w		s to 360 degrees to find th
	and the rotatable table was maximum reading.	as turned from 0 degree	s to 360 degrees to find th
	and the rotatable table waximum reading. e. The test-receiver system	as turned from 0 degree em was set to Peak Dete	
	and the rotatable table w maximum reading. e. The test-receiver syste Bandwidth with Maximum	as turned from 0 degree em was set to Peak Dete n Hold Mode.	s to 360 degrees to find the
st Method:	these three bands are band	otek Anbotek An	oor Pr. Dogek
		ak work an	2011-12711-12 211-211-212-22-2
NA	201	- 40 7 4 40 7 0 40 7 7	Antore. Ar
est Method:	ANSI C63.10-2020, secti	on 12.7.4, 12.7.6, 12.7.7	Aupon All
or monion.	MOTO AM	Sir 12.17, 12.1.0, 12.1.1	VII.
	26		
	a. For above 1GHz, the E	EUT was placed on the t	op of a rotating table 1.5
		16°	
	/ L	C V-C	
	which was mounted on the	ne top of a variable-heigh	nt antenna tower
	ground to determine the	maximum value of the fi	eld strength. Both horizont
ocedure.			
ocedure:			
	1(0.1	- AV	· · · · · · · · · · · · · · · · · · ·
	test frequency of below 3	OMHz the antenna was	tuned to heights 1 meter)
	I LOSE IL CAUCHO VOI DEIOW J		TOTAL CONTRACTOR OF THE CONTRA
	and the rotatable table was maximum reading.	as turned from 0 degree	s to 360 degrees to find th
	and the rotatable table waximum reading. e. The test-receiver system	as turned from 0 degree em was set to Peak Dete	s to 360 degrees to find th
	and the rotatable table w maximum reading. e. The test-receiver syste Bandwidth with Maximum	as turned from 0 degree em was set to Peak Dete n Hold Mode.	s to 360 degrees to find the
	and the rotatable table waximum reading. e. The test-receiver system	as turned from 0 degree em was set to Peak Dete n Hold Mode.	s to 360 degrees to find the
	and the rotatable table w maximum reading. e. The test-receiver syste Bandwidth with Maximum	as turned from 0 degree em was set to Peak Dete n Hold Mode. the EUT in peak mode v	s to 360 degrees to find ect Function and Specific vas 10dB lower than the









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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.

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.



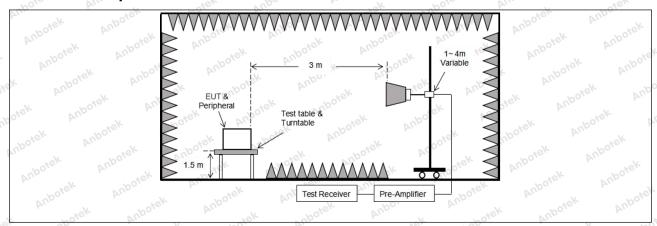






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#### 9.2. Test Setup







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#### 9.3. Test Data

Temperature: 25.2 °C	Humidity: 45 %	Atmospheric Pressure:	101 kPa
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		TM1 / B	and: 5150-5	350 MHz / BV	N: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.82	15.99 M	52.81	68.20	-15.39	workH A	Peak
5150.00	38.86	15.99	54.85	68.20	-13.35	, V	Peak
5150.00	26.80	15.99	42.79	54.00	-11.21	And Hick	AVG
5150.00	28.81	15.99	44.80	54.00	-9.20	Vub.	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	37.31	16.43	53.74	68.20	-14.46	H	Peak
5350.00	40.15	16.43	56.58	68.20	-11.62	And Vick	Peak
5350.00	28.57	16.43	45.00	54.00	-9.00	PUB.	AVG
5350.00	29.53	16.43	45.96	54.00	-8.04	Kpoter	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	35.82	15.99	51.81	68.20	-16.39	Horek	Peak
5150.00	37.17	15.99	53.16	68.20	-15.04	ek V noore	Peak
5150.00	26.54	15.99 nbot	42.53	54.00 NO	-11.47	.ek H	otel <sup>k</sup> AVG Mario
5150.00	27.55	500° 15.99 AN	43.54	54.00	-10.46 AT	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	37.61	16.43	54.04	68.20	-14.16	k Habotel	Peak
5350.00	38.68	16.43	55.11	68.20	-13.09	V	Peak No
5350.00	27.63	16.43	44.06	54.00	9.94 AN	H And	AVG
5350.00	29.04	16.43	45.47	54.00	-8.53	inpoter A	AVG





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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	36.29	15.99	52.28	68.20	-15.92	K Habotel	Peak
5150.00	38.16 <sub>00</sub>	15.99	54.15	68.20 100T	-14.05	otek V Anbo	Peak
5150.00	26.85	otel 15.99 And	42.84	54.00 pm	-11.16 Arriv	H-Market	o AVG
5150.00	28.67	15.99	44.66	54.00	-9.34	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	37.96	16.43	54.39	68.20	-13.81	rek H anboi	Peak
5350.00	36.87	16.43	53.30	68.20 M	-14.90	× V	Peak
5350.00	28.10	16.43	44.53	54.00	-9.47	P. H	AVG
5350.00	29.27	16.43	45.70	54.00	-8.30	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	36.74	15.99	52.73	68.20	-15.47	nboteH	Peak
5150.00	38.46	15.99	54.45	68.20	-13.75	No Nok	Peak
5150.00	26.45	15.99	42.44	54.00	-11.56	Horek	AVG
5150.00	28.59	15.99	44.58	54.00	-9.42	y V pote	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	37.77	16.43	54.20	68.20	-14.00	NO HPK	Peak
5350.00	38.04	16.43	54.47	68.20	-13.73	Votek	Peak
5350.00	27.65	16.43	44.08	54.00	-9.92	H H	AVG
5350.00	28.16	16.43	44.59	54.00	-9.41 vo <sup>te</sup>	Avupo	AVG

Remark: 1. Result=Reading + Factor



Hotline



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	464	,	40.	Po, by		ALC:
	TM3 / B	and: 5150-53	350 MHz / BV	V: 40 / L		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
35.70	15.99	51.69	68.20	-16.51	PH	Peak
36.21	15.99	52.20	68.20	-16.00	Nupo,	Peak
25.81 <sup>1000</sup>	15.99	11.80 Albo	54.00	12.20 NO	otek H Anbo	AVG
26.62	15.99	42.61	54.00	-11.39	nbotek V A	AVG
	TM3 / B	and: 5150-53	550 MHz / BV	V: 40 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
37.88	16.43	54.31	68.20	-13.89	H <sup>nb</sup>	Peak
37.07	16.43	53.50	68.20	-14.70	tek A Vupo,	Peak
27.38	16.43	43.81	54.00	-10.19	hotek H An	AVG
27.23	16.43	43.66	54.00	-10.34	V	AVG
	(dBuV) 35.70 36.21 25.81 26.62  Reading (dBuV) 37.88 37.07 27.38	Reading (dBuV) (dB/m) 35.70 15.99 36.21 15.99 25.81 15.99 26.62 15.99  TM3 / B  Reading (dBuV) (dB/m) 37.88 16.43 37.07 16.43 27.38 16.43	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           35.70         15.99         51.69           36.21         15.99         52.20           25.81         15.99         41.80           26.62         15.99         42.61           TM3 / Band: 5150-53           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)           37.88         16.43         54.31           37.07         16.43         53.50           27.38         16.43         43.81	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)           35.70         15.99         51.69         68.20           36.21         15.99         52.20         68.20           25.81         15.99         41.80         54.00           TM3 / Band: 5150-5350 MHz / BV           Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)           37.88         16.43         54.31         68.20           37.07         16.43         53.50         68.20           27.38         16.43         43.81         54.00	(dBuV)         (dB/m)         (dBuV/m)         (dBuV/m)         (dBuV/m)         (dB)           35.70         15.99         51.69         68.20         -16.51           36.21         15.99         52.20         68.20         -16.00           25.81         15.99         41.80         54.00         -12.20           26.62         15.99         42.61         54.00         -11.39           TM3 / Band: 5150-5350 MHz / BW: 40 / H           Reading (dBuV)         Factor (dBwV/m)         Limit (dBuV/m)         Over limit (dBuV/m)           (dBuV)         (dBh/m)         68.20         -13.89           37.07         16.43         53.50         68.20         -14.70           27.38         16.43         43.81         54.00         -10.19	Reading (dBuV)         Factor (dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Over limit (dB)         Antenna Pol.           35.70         15.99         51.69         68.20         -16.51         H           36.21         15.99         52.20         68.20         -16.00         V           25.81         15.99         41.80         54.00         -12.20         H           26.62         15.99         42.61         54.00         -11.39         V           TM3 / Band: 5150-5350 MHz / BW: 40 / H           Reading (dBuV) (dB/m) (dB/m) (dB/m) (dBuV/m) (dBuV/m) (dB)         Over limit (dBuV/m) Pol.         Antenna Pol.           37.88         16.43         54.31         68.20         -13.89         H           37.07         16.43         53.50         68.20         -14.70         V           27.38         16.43         43.81         54.00         -10.19         H

Remark: 1. Result=Reading + Factor

	18.	TM3 / E	Band: 5150-53	350 MHz / BV	V: 80 / L	1/4	507
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	ote <sup>k</sup> 35.91 ph	15.99	51.90	68.20 And	-16.30	botek H Ani	Peak
5150.00	36.20	15.99	52.19	68.20	-16.01	Votodo	Peak
5150.00	26.33	15.99	42.32	54.00	-11.68	Hek	AVG
5150.00	26.67	15.99	42.66	54.00	-11.34	Votek	AVG
		TM3 / E	Band: 5150-53	350 MHz / BV	V: 80 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5350.00	38.06	16.43	54.49	68.20	-13.71	n H <sup>shodo</sup>	Peak
5350.00	37.25	16.43	53.68	68.20	-14.52	N. V.	Peak
5350.00	28.51	16.43	44.94	54.00	-9.06	AUR H JOK	AVG
5350.00	27.94	16.43	44.37	54.00	-9.63	AVP	AVG





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<u> </u>		740, 70,			Mo. h.		
		TM1 / 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	38.02	16.37	54.39	74.00	-19.61	"Ho <sub>te"</sub>	Peak
5460.00	39.35	16.37	55.72	74.00	-18.28	k V botek	Peak
5470.00	38.95	16.70	55.65	68.20	-12.55	H	Peak
5470.00	39.64	16.70	56.34 56	68.20	-11.86	oter A Vupe	Peak
5460.00	28.65	16.37	45.02	54.00	-8.98	hotek H Ar	AVG
5460.00	28.51	16.37	44.88	54.00	-9.12	V	AVG
5470.00	28.92	16.70	45.62	54.00	-8.38	Pup H ok	AVG
5470.00	30.02	16.70	46.72	54.00	-7.28	AUD TO	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	38.94	17.21 And	56.15	68.20	-12.05	otek H An	Peak Pr
5850.00	39.28	17.21	56.49	68.20	11.71	V	Peak
5850.00	28.95	17.21	46.16	54.00	-7.84	AuporH ″	AVG
5850.00	28.99	17.21	46.20	54.00	-7.80	VIII A	AVG

Remark: 1. Result=Reading + Factor

2/2	310 - 10 -	- T	_/C	71.		*6,	· · · · · · · · · · · · · · · · · · ·		
TM2 / Band: 5470-5850 MHz / BW: 20 / L									
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector		
5460.00	37.98	16.37	54.35	74.00	-19.65	Pupe H	Peak		
5460.00	38.52	16.37	54.89	74.00	-19.11	Anlo	Peak		
5470.00	38.09	16.70	54.79	68.20	-13.41	Hotel	Peak		
5470.00	38.47	16.70	55.17	68.20	-13.03	V V	Peak		
5460.00	27.08	16.37	43.45	54.00	-10.55	HAM	AVG NO		
5460.00	27.46	16.37	43.83	54.00	410.17	potek V And	AVG		
5470.00	27.52	16.70	44.22	54.00	-9.78	hotel I	AVG		
5470.00	28.00	16.70	44.70	54.00	-9.30	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	37.18	17.21	54.39	68.20	-13.81	Harrie	Peak		
5850.00	37.83	17.21	55.04 NO	68.20	-13.16	otek V Anb	Peak		
5850.00	27.41	o <sup>ten</sup> 17.21 And	44.62	54.00	-9.38	HYSto	bote AVG A		
5850.00	28.29	17.21	45.50	54.00	-8.50	rups Ar	AVG		





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0 P		-46. VU.			MA. N.		
		TM2 / B	and: 5470-58	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
5460.00	37.56	16.37	53.93	74.00	-20.07	"Hote.	Peak
5460.00	38.40	16.37	54.77	74.00	-19.23	k V botek	Peak
5470.00	38.39	16.70	55.09	68.20	-13.11	H	Peak boo
5470.00	39.01	16.70	55.71 55	68.20	-12.49	OLE A VUDE	Peak
5460.00	26.72	16.37	43.09	54.00	-10.91	botek H Ar	AVG
5460.00	28.64	16.37	45.01	54.00	-8.99	V	AVG
5470.00	26.92	16.70	43.62	54.00	-10.38	Aup H ok	AVG
5470.00	28.32	16.70	45.02	54.00	-8.98	PU.A.	AVG
		TM2 / 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	37.92	17.21	55.13	68.20	-13.07	Lotek H An	Peak Am
5850.00	38.34	17.21	55.55	68.20	-12.65	V	Peak
5850.00	28.08	17.21	45.29	54.00	-8.71	Anbort H	AVG
5850.00	29.21	17.21	46.42	54.00	-7.58	N. W.	AVG

Remark: 1. Result=Reading + Factor

20	- AP-	<u> </u>	.V. ~0,	D/1.		101- 101-	· · · · · · · · · · · · · · · · · · ·		
TM3 / Band: 5470-5850 MHz / BW: 20 / L									
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector		
5460.00	37.23	16.37	53.60	74.00	-20.40	Ano H	Peak		
5460.00	37.46	16.37	53.83	74.00	-20.17	AUGO	Peak		
5470.00	37.81	16.70	54.51	68.20	-13.69	Hootek	Peak		
5470.00	38.26	16.70	54.96	68.20	-13.24	V note	Peak		
5460.00	27.92	16.37	44.29	54.00	-9.71	H	AVG NO		
5460.00	28.47	16.37	44.84	54.00	-9.16	potek V Anb	AVG		
5470.00	28.20	16.70	44.90	54.00	-9.10	Lotel H	AVG		
5470.00	28.93	16.70	45.63	54.00	-8.37	N. N.	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	37.97	17.21	55.18	68.20	-13.02	HAMP	Peak		
5850.00	38.88	17.21	56.09 No	68.20	-12.11	otek V Anbo	Peak		
5850.00	27.87	o <sup>ten</sup> 17.21 And	45.08	54.00	-8.92	H	NOTE AVG		
5850.00	28.89	17.21	46.10	54.00	-7.90	NUP AK	AVG		





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	· ·	TM3 / B	and: 5470-58	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
5460.00	36.19	16.37	52.56	74.00	-21.44	"Ho <sub>yer</sub>	Peak
5460.00	37.76	16.37	54.13	74.00	-19.87	k V botek	Peak
5470.00	36.62	16.70	53.32	68.20	-14.88	H	Peak
5470.00	38.10	16.70	54.80	68.20	-13.40	oter A Vupe	Peak
5460.00	27.23	16.37	43.60	54.00	-10.40	hotek H Ar	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	Pupp H ok	AVG
5470.00	28.18	16.70	44.88	54.00	-9.12	AnV	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	37.55	17.21	54.76	68.20	-13.44	otek H an	Peak Pr
5850.00	38.33	17.21	55.54	68.20	-12.66	V	Peak
5850.00	27.54	17.21	44.75	54.00	-9.25	Anbor H	AVG
5850.00	27.12	17.21	44.33	54.00	-9.67	N/A/S	AVG

Remark: 1. Result=Reading + Factor

		TM3 / B	and: 5470-58	350 MHz / BV	V: 80 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5460.00	35.48	16.37	51.85	74.00	-22.15	Moreh	Peak
5460.00	36.97	16.37	53.34	74.00	-20.66	Nek	Peak
5470.00	35.84	16.70	52.54	68.20	-15.66	Ann H Nek	Peak
5470.00	37.92	16.70	54.62	68.20	-13.58	V	Peak
5460.00	25.68	16.37	42.05	54.00	-11.95	ek Hanbot	AVG
5460.00	26.86	16.37	43.23	54.00	-10.77	tek V	o <sup>tel</sup> AVG M
5470.00	26.43	16.70	43.13	54.00	bot-10.87 M	Н	AVG
5470.00	27.07	16.70	43.77	54.00	-10.23	Aupole	AVG
		TM3 / B	and: 5470-58	350 MHz / BW	V: 80 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5850.00	37.40	17.21	54.61	68.20	-13.59	k Hupote	Peak
5850.00	37.75	17.21	54.96	68.20	-13.24	V V	Peak no
5850.00	27.73	√√17.21 <sub>√√</sub>	44.94	54.00	otel -9.06 pot	H	AVG
5850.00	28.14	17.21	45.35	54.00	-8.65	abotel V	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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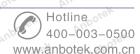
would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.

- 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

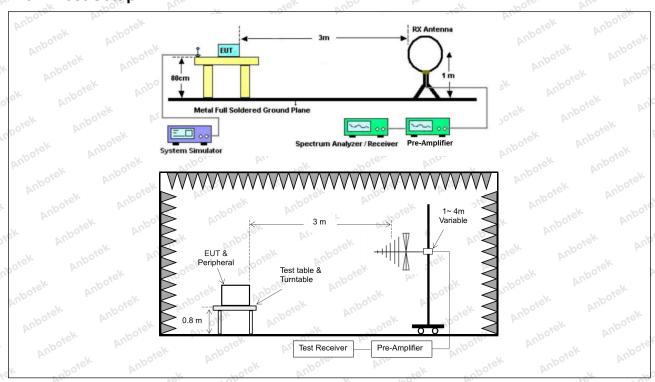
### Operating Environment:

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.

#### 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.

### 10.2. Test Setup









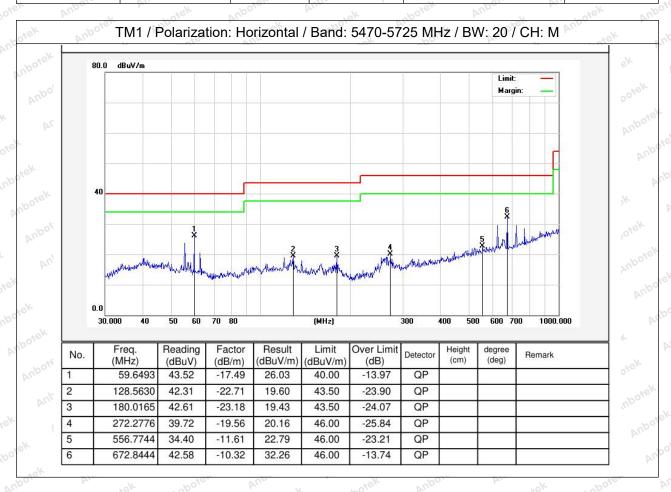


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### 10.3. Test Data

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

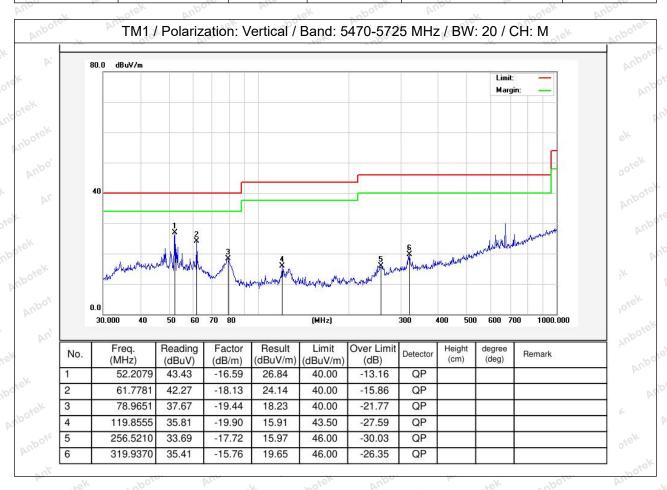
-	Temperature:	25.2 °C	Humidity:	45%	Atmospheric Pressure:	101 kPa
	iomporataro.	20.20	i iditiidity.	10.70	7 turioopriorio i 1000uro.	Aprilo i Ki Gi





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Temperature:	25.2 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
. 51,00 51 511511 5110					



Note: Only record the worst data in the report.





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# 11. Undesirable emission limits (above 1GHz)

	anbore.	47 CFR Part 15.407(b)(1)	Vupo.	i-otek	Anbore	YUP
		47 CFR Part 15.407(b)(2)	aboten			Aupo,
	Test Requirement:	47 CFR Part 15.407(b)(3)		aboter		, vote
	Ar. stek anbor	47 CFR Part 15.407(b)(4)				AUG
46	K Anbo, K	47 CFR Part 15.407(b)(10)	ek abotek	Anbo.	k hotel	K AUD
- [	75.		12/	3/1	5	· ·

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 increasing linearly to a level of 27 dBm/MHz at the band edge.

Toct	П	im	iŧ٠

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) Sorek
13.36-13.41	Vupo, Vi	19th 195	View Ville

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



<sup>&</sup>lt;sup>2</sup>Above 38.6



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rek spotek			hese frequency bands sha
			encies equal to or less tha
	1000 MHz, compliance w		
	using measurement instr		
	detector. Above 1000 MH		
isotek anb			ge value of the measured
And	emissions. The provision	s in § 15.35apply to the	se measurements.
	nck . shotek At	ipo. H. Stek	Anbore. And
	Except as provided elsev		
ofer Ande		not exceed the field stre	ngth levels specified in the
	following table:	Aupo, Ai,	And And
	Frequency (MHz)	Field strength	Measurement
	stek Anbore	(microvolts/meter)	distance
	Her Augo	ek anbore Arr	(meters)
	0.009-0.490	2400/F(kHz)	300
"ofek Ar	0.490-1.705	24000/F(kHz)	30,000
Ano	1.705-30.0	30	And 30 hotek
	30-88	100 **	anbore 3 And
	88-216	150 **	re's anbore
	216-960	200 **	Anbe 3
	Above 960	500	ek sp3ek Anb
	** Except as provided in	naragraph (g) fundame	ntal emissions from
	intentional radiators oper	ating under this section	shall not be located in the
Ande			
	frequency bands 54-72 N		
			s is permitted under other
	sections of this part, e.g.,	§§ 15.231 and 15.241.	Vupose Vur
	In the emission table abo		
			based on measurements
			or the frequency bands 9–
	90 kHz, 110–490 kHz and		
		ised on measurements e	employing an average
Aug Sek	201	otek Anbore An	atek nipotek Ar
est Method:	ANSI C63.10-2020, secti	on 12.7.4, 12.7.6, 12.7.7	Aupo, W. Wolek
	Above 1GHz:		
	a. For above 1GHz, the E	EUT was placed on the t	op of a rotating table 1.5
	meters above the ground	at a 3 meter fully-anech	noic chamber. The table wa
	rotated 360 degrees to de	etermine the position of	the highest radiation.
	b. The EUT was set 3 me	eters away from the inter	ference-receiving antenna
	which was mounted on th	ne top of a variable-heig	nt antenna tower.
	c. The antenna height is		
rocoduro:			o make the measurement.
ocedule.	d. For each suspected er		
notek hotek	1(0.1	- AV	1 meter to 4 meters (for the
	test frequency of below 3		
	and the rotatable table w		s to 360 degrees to find th
	and the rotatable table was maximum reading.	as turned from 0 degree	s to 360 degrees to find th
	and the rotatable table waximum reading. e. The test-receiver system	as turned from 0 degree em was set to Peak Dete	
	and the rotatable table w maximum reading. e. The test-receiver syste Bandwidth with Maximum	as turned from 0 degree em was set to Peak Dete n Hold Mode.	s to 360 degrees to find the
st Method:	these three bands are band	otek Anbotek An	oor Pr. Dogek
		ak motek an	2011-12711-12 211-211-212-22-2
NA-+1-0/6/ VU/	201	- 40 7 4 40 7 0 40 7 7	Antore. Ar
est Method:	ANSI C63.10-2020, secti	on 12.7.4, 12.7.6, 12.7.7	Aupon All
or monion.	MOTO AM	Sir 12.17, 12.1.0, 12.1.1	VII.
	26		
	a. For above 1GHz, the E	EUT was placed on the t	op of a rotating table 1.5
		16°	
	/ L	C V-C	
	which was mounted on the	ne top of a variable-heigh	nt antenna tower
	ground to determine the	maximum value of the fi	eld strength. Both horizont
ocedure.			
ocedure:			
	1(0.1	- AV	· · · · · · · · · · · · · · · · · · ·
	test frequency of below 3	OMHz the antenna was	tuned to heights 1 meter)
	I LOSE IL CAUCHO VOI DEIOW J		TOTAL CONTRACTOR OF THE CONTRA
	and the rotatable table was maximum reading.	as turned from 0 degree	s to 360 degrees to find th
	and the rotatable table waximum reading. e. The test-receiver system	as turned from 0 degree em was set to Peak Dete	s to 360 degrees to find th
	and the rotatable table w maximum reading. e. The test-receiver syste Bandwidth with Maximum	as turned from 0 degree em was set to Peak Dete n Hold Mode.	s to 360 degrees to find the
	and the rotatable table waximum reading. e. The test-receiver system	as turned from 0 degree em was set to Peak Dete n Hold Mode.	s to 360 degrees to find the
	and the rotatable table w maximum reading. e. The test-receiver syste Bandwidth with Maximum	as turned from 0 degree em was set to Peak Dete n Hold Mode. the EUT in peak mode v	s to 360 degrees to find ect Function and Specific vas 10dB lower than the









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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.



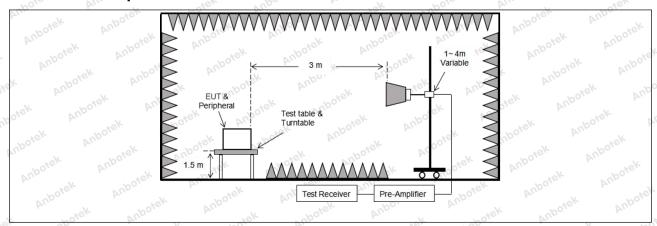






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# 11.2. Test Setup







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# 11.3. Test Data

Temperature: 25.2 °C Humidity: 45 % Atmospheric Pressure: 101 kPa

		TM3 / B	and: 5150-52	250 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10380.00	29.52	23.81 M	53.33	68.20	-14.87 Anii	V	Peak
15570.00	30.77	28.91	59.68	68.20	-8.52	upo. A	Peak
10380.00	30.57	23.81	54.38	68.20	-13.82	Anboro	Peak
15570.00	31.44	28.91	60.35	68.20	-7.85	N.Hotek	Peak
10380.00	20.22	23.81	44.03	54.00	-9.97	Vootek	AVG
15570.00	20.68	28.91	49.59	54.00	-4.41	V	AVG NOON
10380.00	20.52	23.81	44.33	54.00	otel -9.67 prob	H Ann	AVG
15570.00	20.77 Pri	28.91	49.68	54.00	-4.32	upotek H Ar	AVG
		TM3 / 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	29.81	23.80	53.61	68.20	-14.59	Kupote	Peak
15690.00	31.00	30.03	61.03	68.20	-7.17	iek V nbot	Peak
10460.00	30.41	23.80	54.21	68.20	-13.99	Н	o <sup>tel</sup> Peak ⊾ <sup>∩</sup>
15690.00	31.61	30.03	61.64 And	68.20	-6.56	H bu	Peak
10460.00	20.41	23.80	44.21	54.00	-9.79	Anborev	AVG
15690.00	20.61	30.03	50.64	54.00	-3.36	" up New	AVG
10460.00	20.43	23.80	44.23	54.00	-9.77	Horek	AVG
15690.00	20.56	30.03	50.59	54.00	-3.41	H	AVG

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





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2, by,		TMO (D		250 MH - / D	M. 40 / I		740. V
		IM3/B	and: 5250-5	350 MHz / BV	W: 40 / L		I
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10540.00	27.09	23.83	50.92	68.20	-17.28	PA,	Peak
15810.00	28.84	30.70	59.54	68.20	-8.66	K Nupore	Peak
10540.00	27.62	23.83	51.45	68.20	-16.75	dek H no	Peak
15810.00	28.99	otel 30.70 prob	59.69	68.20	oten-8.51 Ant	Н	Peak
10540.00	16.93	23.83	40.76	54.00	-13.24	Npo, A	AVG
15810.00	17.98	30.70	48.68	54.00	-5.32	Aupoke	AVG
10540.00	17.31	23.83	41.14	54.00	-12.86	Hotek	AVG
15810.00	18.35	30.70	49.05	54.00	-4.95	H botek	AVG
0.001		TM3 / 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	27.79	23.90	51.69	68.20	-16.51	λ	Peak
15930.00	27.76	31.83	59.59	68.20	-8.61	Aup Auk	Peak
10620.00	28.42	23.90	52.32	68.20	-15.88	ANH	Peak
15930.00	28.51	31.83	60.34	68.20	-7.86	Hupoyer	Peak
10620.00	18.06	23.90	41.96	54.00	-12.04	ek V nbot	AVG
15930.00	17.41	31.83	49.24	54.00	-4.76	V	otel AVG AN
10620.00	18.47	23.90	42.37	54.00	-11.63	Poster H	AVG
15930.00	17.61	31.83	49.44	54.00	-4.56	Anborett H	AVG

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





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Le. VUL		arek ant	0, b.,	4	hote, An		atek.
		TM3 / B	and: 5470-5	725 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11000.00	26.91	24.15	51.06	68.20	-17.14	V.	Peak
16500.00	28.96	33.05	62.01	68.20	-6.19	K Nupote	Peak
11000.00	28.67	24.15	52.82	68.20	-15.38	otek H noo	Peak
16500.00	29.10	otel*33.05 pm	62.15	68.20	-6.05 Ant	H	Peak
11000.00	16.532	24.15	40.68	54.00	-13.32	Wpo, A	AVG
16500.00	17.813	33.05	50.86	54.00	-3.14	Vupo C	AVG
11000.00	16.712	24.15	40.86	54.00	-13.14	Hotek	AVG
16500.00	16.681	33.05	49.73	54.00	-4.27	H botek	AVG
		TM3 / B	and: 5470-57	725 MHz / BV	V: 20 / M		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11200.000	26.59	23.83	50.42	68.20	-17.78	V	Peak
16800.000	27.13	32.16	59.29	68.20	-8.91	Aup Aup	Peak
11200.000	27.60	23.83	51.43	68.20	-16.77	Anh	Peak
16800.000	27.71	32.16	59.87	68.20	-8.33	Hypoten	Peak
11200.000	16.782	23.83	40.61	54.00	-13.39	ek V nbot	AVG
16800.000	18.213	32.16	50.37	54.00	-3.63	V	AVG
11200.000	17.212	23.83	41.04	54.00	-12.96	Poole H	AVG
16800.000	18.541	32.16	50.70	54.00	-3.30	AnboreH	AVG
		TM3 / B	and: 5470-5	725 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detecto
11400.000	25.68	23.51	49.19	68.20	-19.01	Sk A Vupor	Peak
17100.000	27.02 mg	31.73	58.75	68.20	-9.45	otek V Ant	Peak
11400.000	26.50	23.51	50.01	68.20	-18.19	H	Peak
17100.000	27.71	31.73	59.44	68.20	-8.76	Pupo, H	Peak
11400.000	16.16	23.51	39.67	54.00	-14.33	Vup Ster	AVG
17100.000	17.42	31.73	49.15	54.00	-4.85	Motek	AVG
11400.000	20.00	23.51	43.51	54.00	-10.49	H bote	AVG
17100.000	18.33	31.73	50.06	54.00	-3.94	Н	AVG

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







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ie. Vur		riek nob	, b.,		HOLE, AU		rek
		TM3 / B	and: 5725-58	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
11490.000	28.40	23.36	51.76	68.20	-16.44	PA, O	Peak
17235.000	29.65	31.97	61.62	68.20	-6.58	K Nupote	Peak
11490.000	28.71	23.36	52.07	68.20	-16.13	oder H valo	Peak
17235.000	29.92	otel*31.97 pmb	61.89	68.20	-6.31 Ant	Н	Peak
11490.000	17.60	23.36	40.96	54.00	-13.04	Npo, A	AVG
17235.000	18.27	31.97	50.24	54.00	-3.76	Vupor.	AVG
11490.000	17.74	23.36	41.10	54.00	-12.90	Hotek	AVG
17235.000	17.93	31.97	49.90	54.00	-4.10	H botek	AVG
551		TM3 / Ba	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	28.98	23.42	52.40	68.20	-15.80	V	Peak
17355.000	29.53	32.18	61.71	68.20	-6.49	Vupo, ∧ °K	Peak
11570.000	28.91	23.42	52.33	68.20	-15.87	Anh	Peak
17355.000	30.01	32.18	62.19	68.20	-6.01	Hypoten	Peak
11570.000	18.871	23.42	42.29	54.00	-11.71	ek V noot	AVG
17355.000	18.590	32.18	50.77	54.00	-3.23	V	AVG
11570.000	18.731	23.42	o <sup>tel</sup> 42.15 An	54.00	-11.85	Pose H	AVG
17355.000	18.313	32.18	50.49	54.00	-3.51	Anboiett	AVG
		TM3 / 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	28.49	23.49	51.98	68.20	-16.22	SK A VUpor	Peak
17475.000	29.77 NOO	32.39	62.16	68.20	-6.04	otek V anh	Peak
11650.000	28.65	23.49	52.14	68.20	-16.06 AT	Н	Peak
17475.000	29.62	32.39	62.01	68.20	-6.19	Pupo, H	Peak
11650.000	17.94	23.49	41.43	54.00	-12.57	AUPS	AVG
17475.000	18.39	32.39	50.78	54.00	-3.22	Notek	AVG
11650.000	17.91	23.49	41.40	54.00	-12.60	H bote	AVG
17475.000	18.28	32.39	50.67	54.00	-3.33	Н	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 -----

