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FCC Test Report

Grastron Technology CO., LTD Applicant

401 Building#B Dingxin Science and

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

street, Baoan district, Shenzhen, Guangdong

Province, 518101 China

: Wireless Presentation System Product Name

Report Date Jan. 19, 2024

Shenzhen Anbotek Compliance Laboratory Limited







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TEST REPORT

Applicant : Grastron Technology CO., LTD

Manufacturer : Grastron Technology CO., LTD

Product Name : Wireless Presentation System

Test Model No. : WMT-H26

DG-H20, DG-H21, DG-H22, DG-H23, DG-H24, DG-H25, DG-H26, DG-

Reference Model No. : H27, DG-H28, DG-H29, WMT-H20, WMT-H21, WMT-H22, WMT-H23,

WMT-H24, WMT-H25, WMT-H27, WMT-H28, WMT-H29

Trade Mark : N/A

Rating(s) : Input: 5V= 0.5 A

47 CFR Part 15E ANSI C63.10-2020

Test Standard(s)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

Date of Receipt.	Dec. 11, 2025
Anbotek Anbote All botek Anboten	And otek Anbotek Anbote An
Date of Test:	Dec. 11, 2023 to Jan. 03, 2024
otek Anbotek Anbotek Anbotek Anbotek Anbot	Ella Islang
Prepared By:	potek Anbore All motek Anborer
	(Ella Liang)
	Idward pan
Approved & Authorized Signer:	Tok potek Mylor Arrivatek
otek shoter And	(Edward Pan)





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Revision History

Report Version	Description	Issued Date
Anbore R00 potek An	Original Issue.	Jan. 19, 2024
k Anborek Anborek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb
ore Ambotek Anbotek	Anbotek Anbotek Anbot	rek Anbotek Anbotek





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1. General Information

1.1. Client Information

Applicant	1:	Grastron Technology CO., LTD
Address	:	401 Building#B Dingxin Science and Technology Park,Honglangbei #2 Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province, 518101 China
Manufacturer		Grastron Technology CO., LTD
Address	:	401 Building#B Dingxin Science and Technology Park,Honglangbei #2 Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province, 518101 China
Factory	:	Grastron Technology CO., LTD
Address	:	401 Building#B Dingxin Science and Technology Park,Honglangbei #2 Road,Xin'an street,Baoan district, Shenzhen, Guangdong Province, 518101 China

1.2. Description of Device (EUT)

Product Name	:	Wireless Presentation System
Test Model No.	:	WMT-H26
Reference Model No.	:	DG-H20, DG-H21, DG-H22, DG-H23, DG-H24, DG-H25, DG-H26, DG-H27, DG-H28, DG-H29, WMT-H20, WMT-H21, WMT-H22, WMT-H23, WMT-H24, WMT-H25, WMT-H27, WMT-H28, WMT-H29 (Note: All samples are the same except the model number and appearance color, so we prepare "WMT-H26" for test only.)
Trade Mark	:	N/A of Anborek Anborek Anborek Anborek Anbore
Test Power Supply	:	DC 5V via PC
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	802.11a/n(HT20)/ac(VHT20)/ax(HEW20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(VHT40)/ax(HEW40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 3: 5755MHz to 5795MHz; 802.11ac(VHT80)/ax(HEW80): U-NII Band 1: 5210MHz; U-NII Band 3: 5775MHz
Number of Channel	:	802.11a/n(HT20)/ac(VHT20)/ax(HEW20): U-NII Band 1: 4; U-NII Band 3: 5;









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200		802.11n(HT40)/ac(VHT40)/ax(HEW40): U-NII Band 1: 2; U-NII Band 3: 2; 802.11ac(VHT80)/ax(HEW80):
		U-NII Band 1: 1; U-NII Band 3: 1
Modulation Type	:	802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type	:	Ceramic antenna
Antenna Gain(Peak)	:	WiFi 5.2G: 5.18dBi WiFi 5.8G: 5.04dBi

- (1) All of the RF specification are provided by customer.(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.





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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.	
Acer Computer	And acer nootek	N19W3	2020AJ3862	





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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 3

Bandwidth:	20MHz	Bandwidth:	40MHz	Bandwidth:	80MHz
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	Anb 5755	155 Mbote	5775
153	5765 Andrew	159	5795	rup rotekl aup	otek /Anboro
157	5785	o. I hote	K Moore	Yun Vek	hotek / Anbor
161	5805	Tupo.	otek / Aupore	Andhotek	Anborek/ Anb
165	5825	Anbo	nbotek / Anbote	Ary Potek	Anboisic A

1.5. Description of Test Modes

Pretest Modes	Descriptions
tek Anbotek TM1 Anbotek Anbotek	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
Anbotek Anbote Anbotek	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
ek Anbotek TM3 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.
unbotek Anbotek Anbot TM4 tek Anbot Anbotek Anbotek	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.





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1.6. Measurement Uncertainty

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

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





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1.7. Test Summary

Test Items	Test Modes	Status
Conducted Emission at AC power line	Mode1,2,3,4	Ant Potel
Duty Cycle	Mode1,2,3,4	P P
Maximum conducted output power	Mode1,2,3,4	P P
Power spectral density	Mode1,2,3,4	P
Emission bandwidth and occupied bandwidth	Mode1,2,3,4	anbot Pk
Band edge emissions (Radiated)	Mode1,2,3,4	Anb Parek
Undesirable emission limits (below 1GHz)	Mode1,2,3,4	A'P
Undesirable emission limits (above 1GHz)	Mode1,2,3,4	Pants
Note: P: Pass	rotek Aupotek Aut	Oto Ar

N: N/A, not applicable





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1.8. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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

1.9. Disclaimer

- The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 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

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

Duty Cycle

Maximum conducted output power

Power spectral density
Emission bandwidth and occupied bandwidth

EIIIIS	sion bandwidin and d	occupied bandwidth		70°	b.,	FOIS.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 _{Anl}	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A N/O	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
An4ore	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	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22

Hotline

www.anbotek.com.cn

400-003-0500



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	edge emissions (Ra sirable emission limi		Aupotek	Anboiek	Vupo _{tek}	Anboatek
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
nbole 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Andotek	Aupolek
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
¹⁶ 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Unde	sirable emission limi	ts (below 1GHz)	Anbore.	Vun Polek	Anboiek	Anbo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	01109	2022-10-16	2025-10-15
⊬ 2	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
3	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11
Andore	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
5,nb	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A door	Nupon pole	k Anbotek





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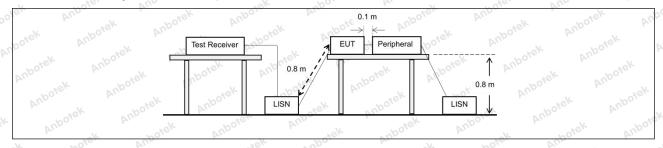
2. Conducted Emission at AC power line

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
Aupo, Vi	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

the set oppose the set oppose the set oppose
ronment:
1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of
worst case is recorded in the report. 3: 802.11ac mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only
the data of worst case is recorded in the report. 4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

2.2. Test Setup



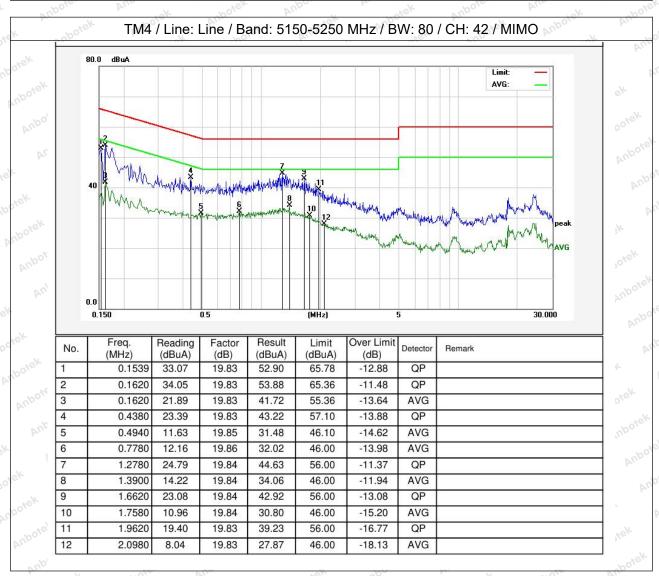




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2.3. Test Data

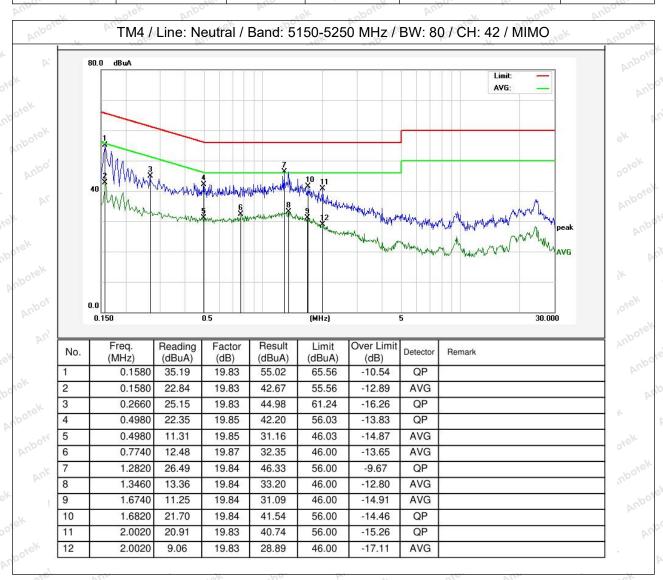
Temperature:	24.7°C	Humidity:	54.4 %	rel	Atmospheric Pressure:	102 kPa
remperature.	27.10	i fulfillalty.	[9 π. π / 0		Authosphiche i ressure.	TOZ KI A





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Temperature: 24.7 °C Humidity: 54.4 % Atmospheric Pressure: 102 kPa



Note: Only record the worst data in the report.

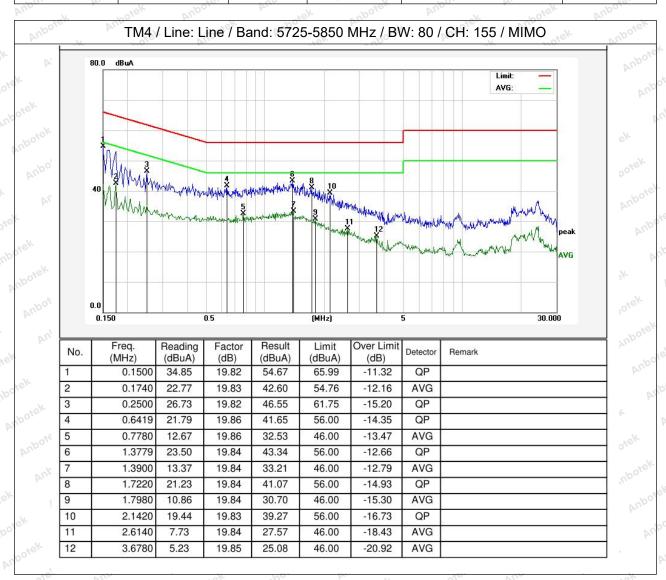






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Temperature: 24.7 °C Humidity: 54.4 % Atmospheric Pressure: 102 kPa

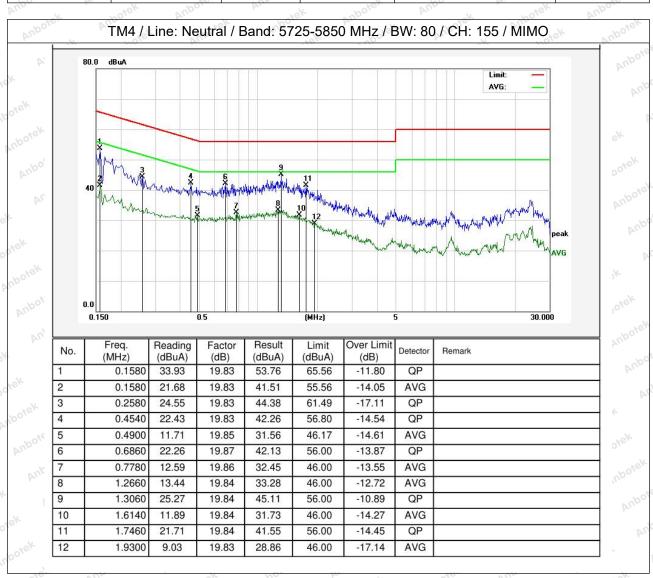






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Temperature: 24.7 °C Humidity: 54.4 % Atmospheric Pressure: 102 kPa



Note: Only record the worst data in the report.







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3. Duty Cycle

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

3.1. EUT Operation

Operating	Environment:
1. 400	No.

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

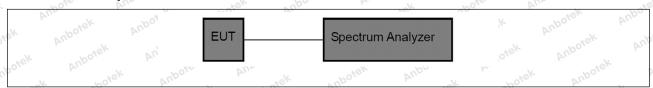
2: 802.11n mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

Test mode:

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

4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

3.2. Test Setup



3.3. Test Data

Please Refer to Appendix for Details.







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4. Maximum conducted output power

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

4.1. EUT Operation

Operating Env	rironment: And the poter Andrew Andrew Andrew Andrew
otek 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
upotek Anbot	found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
Anbotek Anh	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
Test mode:	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
Hotek Anbote	data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
Aupotek Aup	4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.

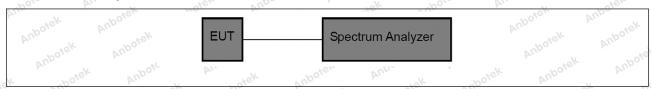






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4.2. Test Setup



4.3. Test Data

Temperature:	25.3 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
19/01/2019/19/19	_0.0		11 1/2	, m	10.111

Please Refer to Appendix for Details.





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5. Power spectral density

Procedure:	Refer to ANSI C63.10-2020, section 12.6
Test Method:	ANSI C63.10-2020, section 12.6
otek Anbotek	the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
Test Limit:	For the band 5.725-5.850 GHz, the maximum 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
Anborek 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.
Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(3)(i)

5.1. EUT Operation

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

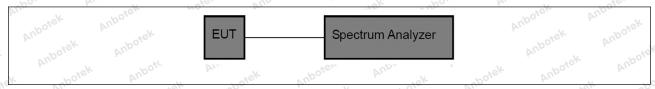






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5.2. Test Setup



5.3. Test Data

10	Tomporaturo	25.3 °C	Humidita	47 %	Atmosphoric Prossuro:	101 kPa
	Temperature:	25.5 6	Humidity:	47 70	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





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6. Emission bandwidth and occupied bandwidth

- spotek Anbote	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Requirement:	Anbo Anbore Anbore Anbore Anbore
Aupore Am	U-NII 3, U-NII 4: 47 CFR Part 15.407(e)
Anbotek Anb	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Limit:	U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands,
V. Votek	the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 6.9 & 12.5 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.

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

Test mode:

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

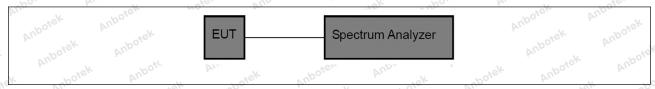
4: 802.11ax mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.





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6.2. Test Setup



6.3. Test Data

10	Tomporaturo	25.3 °C	Humidita	47 %	Atmosphoric Prossuro:	101 kPa
	Temperature:	25.5 6	Humidity:	47 70	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





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7. Band edge emissions (Radiated)

siek suboie	47 CFR Part 15.407(b))(1) Anb		
st Requirement:	47 CFR Part 15.407(b)			
abotek Anbo	47 CFR Part 15.407(b)			
Al otek Anbot	For transmitters opera	ting in the 5 15-5 25 (GHz band [.] All er	missions outsid
Anbo	of the 5.15-5.35 GHz b			
aboter Ant	101 tille 0. 10 0.00 pt 12 2	Anborianina	k alporek Z	Antonia
by.	For transmitters opera-	ting solely in the 5.72	5-5.850 GHz ba	nd: whotel
iek Aupo	All emissions shall be			
tek abotek	above or below the ba			
po, biek	above or below the ba	nd edge, and from 25	MHz above or	below the ban
abotek Anbo	edge increasing linear			
All bote	below the band edge,			
Aupo, A.	increasing linearly to a	level of 27 dBm/MHz	z at the band ed	ge.
spotek Anb	MHz	MHz	MHz	GHz
VII.	0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
sk Aupor	¹ 0.495-0.505	16.69475-	608-614	5.35-5.46
sek shotek	Aupo. W.	16.69525	you you	ek Aupo.
poter Anbe	2.1735-2.1905	16.80425-	960-1240	7.25-7.75
boiek Anbore	Air abor	16.80475	notek an	Do, Vien
And boie!	4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
Anbore And	4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
hotek Anbo	4.20725-4.20775	73-74.6	1645.5-	9.3-9.5
And	Lotek Anbor	y, sex spore,	1646.5	, wotek
ik upoter. V	6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
otek Anbotek	6.26775-6.26825	108-121.94	1718.8- 1722.2	13.25-13.4
st Limit:	6.31175-6.31225	123-138	2200-2300	14.47-14.5
Aupole Aug	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
Anbore. And	8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
r. hotek at	8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
Vup. K	12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
stek unbote.	12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
K rotek	12.57675-12.57725	322-335.4	3600-4400	(2) nbo
aboten Anb	13.36-13.41	by.	aboter And	-14
itek anboten	Aug ok p	otek Anbo	W. Sek	upote. Au
Aupo A	¹ Until February 1, 1999	9, this restricted band	l shall be 0.490-	0.510 MHz.
aboter Anbo	work b	upor An	abotek	
Vi.	² Above 38.6			
Aupo, bi				
ek abotek	The field strength of er			
VII.	not exceed the limits s			
hotek Anborr	1000 MHz, compliance			
nek botek	using measurement in			
Anbore And	detector. Above 1000 I			
botek anbote	15.209shall be demon			
And	emissions. The provisi	ons in § 15.35apply t	o these measure	ements.
	and the second s			









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hotek Anbore A			Are
Anbotek Anbotek		nere in this subpart, the emission of exceed the field strength lev	
Anbore All Otek	Frequency (MHz)	Field strength	Measurement
Anbotek Anbo	Trequency (Wiriz)	(microvolts/meter)	distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30 Mbotel
boiek Anbo	30-88	100 **	3 atek
	88-216	150 **	boleg Aupo
	216-960	200 **	3,ek nbote
	Above 960	500	3
	·6/c /00	aragraph (g), fundamental emi	esions from
		ting under this section shall no	
		Hz, 76-88 MHz, 174-216 MHz	
		these frequency bands is pern	
	16.77		ilitted under other
	sections of this part, e.g., §		a boltand and a botton
		e, the tighter limit applies at the	
	- AV	in the above table are based	
		peak detector except for the fr	
		above 1000 MHz. Radiated er	
		ed on measurements employir	ng an average
w wick an	detector.	ter Aup The Motek	Aupore Al
Test Method:	ANSI C63.10-2020, sectio	n 12.7.4, 12.7.6, 12.7.7	
orek Anbo	Above 1GHz:	we potek Aupo	i. Siek
		JT was placed on the top of a	rotating table 1.5
		at a 3 meter fully-anechoic cha	
		termine the position of the high	
		ers away from the interference	
		e top of a variable-height anten	
		aried from one meter to four m	
	V	naximum value of the field strer	. ()
		of the antenna are set to make	
		ission, the EUT was arranged	
		tuned to heights from 1 meter	
	test frequency of below 30	MHz, the antenna was tuned t	o heights 1 meter)
Procedure:	and the rotatable table wa	s turned from 0 degrees to 360	degrees to find the
anbore	maximum reading.	And	Aupo, Air
		n was set to Peak Detect Func	tion and Specified
	Bandwidth with Maximum		Anb
	-00	ne EUT in peak mode was 10d	B lower than the
		could be stopped and the pea	
		vise the emissions that did not	
	would be re-tested and by	and union mode or everage me	thad as appointed

Lotek Anboret An Case. Anborek Anborek Anborek Anborek

and then reported in a data sheet.



would be re-tested one by one using peak or average method as specified

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

g. Test the EUT in the lowest channel, the middle channel, the Highest





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

7.1. EUT Operation

Operating Environment:

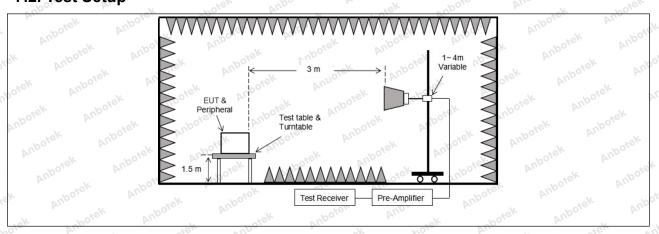
1: 802.11a mode: Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.

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

Test mode:

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

7.2. Test Setup









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7.3. Test Data

Temperature: 25.3 °C	Humidity: 47 %	Atmospheric Pressure:	101 kPa
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		TM1 / E	Band: 5150-5	250 MHz / B\	W: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	36.90	15.99	52.89	68.20	-15.31	workH as	Peak
5150.00	38.95	15.99	54.94	68.20	-13.26	Λ.	Peak
5150.00	26.86	15.99	42.85	54.00	-11.15	Hiek Hick	AVG
5150.00	28.89	15.99	44.88	54.00	-9.12	Vub.	AVG
		TM1 / B	and: 5150-52	250 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.37	16.43	53.80	68.20	-14.40	H	Peak
5250.00	40.26	16.43	56.69	68.20	-11.51	And V.ok	Peak
5250.00	28.66	16.43	45.09	54.00	-8.91	Pub.	AVG
5250.00	29.59	16.43	46.02	54.00	-7.98	Kpoyer	AVG

Remark:

- 1. Result=Reading + Factor
- 2. During the test, all antenna chains has been tested, and only worst case (ANT2) data is listed in the report.

		- 0V					
		TM2 / B	and: 5150-52	250 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	35.87	15.99	51.86	68.20	-16.34	HAME	rek Peak
5150.00	37.24	15.99	53.23	68.20	-14.97 M	ooter V And	Peak
5150.00	26.59	15.99	42.58	54.00	-11.42	Anbore H	AVG
5150.00	27.59	15.99	43.58	54.00	-10.42	Anb Vek	AVG
		TM2 / B	and: 5150-52	250 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.68	16.43	54.11	68.20	-14.09	otek H Anb	Peak
5250.00	38.73	16.43	55.16	68.20	-13.04	otekV .	Peak
5250.00	27.70	16.43	44.13	54.00	-9.87	H. H.	AVG
5250.00	29.13	16.43	45.56	54.00	-8.44	Aupo,	AVG

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.









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O, by		-40. VU	<u> </u>		Po. b.,		740.
		TM2 / 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
5150.00	36.38	15.99	52.37	68.20	-15.83	HA	Peak
5150.00	38.24	15.99	54.23	68.20	-13.97	Nupo,	Peak
5150.00	26.94	15.99	42.93	54.00	otel-11.07 mb	otek H Anbo	AVG
5150.00	28.71 An	15.99	44.70	54.00	-9.30	nbotek V A	AVG
		TM2 / 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
5250.00	38.02	16.43	54.45	68.20	-13.75	Hupp	Peak
5250.00	36.91	16.43	53.34	68.20	-14.86	tek A Vupo,	Peak
5250.00	28.19	16.43	44.62	54.00	-9.38	hotek H An	AVG
5250.00	29.38	16.43	45.81	54.00	-8.19	V	AVG

Remark:

- 1. Result=Reading + Factor
- During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

		TM3 / B	and: 5150-52	250 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	36.83	15.99	52.82	68.20	-15.38	AnbAir	Peak
5150.00	38.57	15.99	54.56	68.20	-13.64	Noose	Peak
5150.00	26.50	15.99	42.49	54.00	-11.51	sk H _M hooie	AVG
5150.00	28.67 _m /2	15.99	44.66	54.00 mb°	-9.34	otek V Anb	AVG
		TM3 / B	and: 5150-52	250 MHz / BV	V: 20 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.82	16.43	54.25	68.20	-13.95	AH ^o ro	Peak
5250.00	38.08	16.43	54.51	68.20	-13.69	k Nupote	Peak
5250.00	27.72	16.43	44.15	54.00	-9.85	H 400	AVG AVG
5250.00	28.25	16.43	44.68	54.00	-9.32	V	AVG

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







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O, by		-4c. "U	<u> </u>		No. b.		740.
		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
5150.00	35.79	15.99	51.78	68.20	-16.42	HA	Peak
5150.00	36.27	15.99	52.26	68.20	-15.94	Nupo,	Peak
5150.00	25.94	15.99	41.93 A	54.00	12.07 NO	otek H Anbo	AVG
5150.00	26.71 M	15.99	42.70	54.00	-11.30	nbotek V A	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
5250.00	37.95	16.43	54.38	68.20	-13.82	Hupp	Peak
5250.00	37.12	16.43	53.55	68.20	-14.65	tek A Vupo,	Peak
5250.00	27.43	16.43	43.86	54.00	-10.14	hotek H An	AVG
5250.00	27.34	16.43	43.77	54.00	-10.23	V	AVG

Remark:

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

	The Superior	T	~ NO.	NI.		AUD TO	*
		TM3 / B	and: 5150-52	250 MHz / BV	V: 80 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.96	15.99	51.95	68.20	-16.25	Hek.	Peak
5150.00	36.31	15.99	52.30	68.20	-15.90	Votek	Peak
5150.00	26.44	15.99	42.43	54.00	-11.57	H hotel	AVG
5150.00	26.75	15.99 (b ^o)	42.74	54.00	-11.26 ^{nbot}	V V	Ne AVG
		TM3 / B	and: 5150-52	250 MHz / BV	V: 80 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.17	16.43	54.60	68.20	-13.60	Hotek	Peak
5250.00	37.34	16.43	53.77	68.20	-14.43	V	Peak
5250.00	28.64	16.43	45.07	54.00	-8.93 ₀ 000	HAMPO	AVG
5250.00	28.02	16.43	ot 44.45 m	54.00	-9.55	otek A Vupe	AVG

- 1. Result=Reading + Factor
- During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







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	764	,	40.	Po, by		yer.
	TM4 / B	and: 5150-52	250 MHz / BV	V: 20 / L		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
35.85	15.99	51.84	68.20	-16.36	PH	Peak
37.22	15.99	53.21	68.20	-14.99	Nupo,	Peak
26.57	15.99	42.56 AD	54.00	xel-11.44	otek H Anbo	AVG
27.57	15.99	43.56	54.00	-10.44	nbotek V A	AVG
	TM4 / B	and: 5150-52	250 MHz / BV	V: 20 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
37.66	16.43	54.09	68.20	-14.11	H ^{nb}	Peak
38.71	16.43	55.14 NO	68.20	-13.06	tek A Vupo,	Peak
27.68	16.43	44.11	54.00	-9.89	hotek H An	AVG
29.10	16.43	45.53	54.00	-8.47	V	AVG
	(dBuV) 35.85 37.22 26.57 27.57 Reading (dBuV) 37.66 38.71 27.68	Reading (dBuV) (dB/m) 35.85 15.99 37.22 15.99 26.57 15.99 27.57 15.99 TM4 / B Reading (dBuV) (dB/m) 37.66 16.43 38.71 16.43 27.68 16.43	Reading (dBuV) Factor (dB/m) Result (dBuV/m) 35.85 15.99 51.84 37.22 15.99 53.21 26.57 15.99 42.56 27.57 15.99 43.56 TM4 / Band: 5150-52 Reading (dBuV) Factor (dB/m) Result (dBuV/m) 37.66 16.43 54.09 38.71 16.43 55.14 27.68 16.43 44.11	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) 35.85 15.99 51.84 68.20 37.22 15.99 53.21 68.20 26.57 15.99 42.56 54.00 27.57 15.99 43.56 54.00 TM4 / Band: 5150-5250 MHz / BV Reading (dBuV) Result (dBuV/m) Limit (dBuV/m) 37.66 16.43 54.09 68.20 38.71 16.43 55.14 68.20 27.68 16.43 44.11 54.00	(dBuV) (dB/m) (dBuV/m) (dBuV/m) (dBuV/m) (dB) 35.85 15.99 51.84 68.20 -16.36 37.22 15.99 53.21 68.20 -14.99 26.57 15.99 42.56 54.00 -11.44 27.57 15.99 43.56 54.00 -10.44 TM4 / Band: 5150-5250 MHz / BW: 20 / H Reading (dBuV) Factor (dBw') Result (dBuV/m) Cover limit (dBwV/m) Over limit (dBwV/m) (dB) 37.66 16.43 54.09 68.20 -14.11 38.71 16.43 55.14 68.20 -13.06 27.68 16.43 44.11 54.00 -9.89	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) Antenna Pol. 35.85 15.99 51.84 68.20 -16.36 H 37.22 15.99 53.21 68.20 -14.99 V 26.57 15.99 42.56 54.00 -11.44 H 27.57 15.99 43.56 54.00 -10.44 V TM4 / Band: 5150-5250 MHz / BW: 20 / H Reading (dBuV) (dB/m) (dB/m) (dB/m) (dBuV/m) (dBuV/m) (dB) Over limit (dBuV/m) (dB) Antenna Pol. 37.66 16.43 54.09 68.20 -14.11 H 38.71 16.43 55.14 68.20 -13.06 V 27.68 16.43 44.11 54.00 -9.89 H

Remark:

- 1. Result=Reading + Factor
- During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.

		TM4 / 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
5150.00	36.35	15.99	52.34	68.20	-15.86	An Pie	Peak
5150.00	38.21	15.99	54.20	68.20	-14.00	Noose	Peak
5150.00	26.91	15.99	42.90	54.00	-11.10	ek H _{Anbote}	AVG
5150.00	28.69,,,,,,,	15.99	44.68	54.00 mb°	-9.32	otek V Anb	AVG
		TM4 / B	and: 5150-52	250 MHz / BV	V: 40 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	37.99	16.43	54.42	68.20	-13.78	AH ^O	Peak
5250.00	36.89	16.43	53.32	68.20	-14.88	k Vupote	Peak
5250.00	28.16	16.43	44.59	54.00	-9.41	ek H	AVG AVG
5250.00	29.34	16.43	45.77 A5.77	54.00	-8.23	V	AVG

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







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		TM4 / B	and: 5150-52	250 MHz / BV	V: 80 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5150.00	35.94	15.99	51.93	68.20	-16.27	AH LON	Peak
5150.00	36.27	15.99	52.26	68.20	-15.94	Nupo	Peak
5150.00	26.40	15.99	42.39 no	54.00	11.61 NO	otek H Anbo	AVG
5150.00	26.72	15.99	42.71	54.00	-11.29	nbotek V Ar	AVG
		TM4 / B	and: 5150-52	250 MHz / BV	V: 80 / H		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5250.00	38.13	16.43	54.56	68.20	-13.64	Hup	Peak
5250.00	37.31	16.43	53.74	68.20	-14.46	isk A Vupo,	Peak
5250.00	28.59	16.43	45.02	54.00	-8.98	Lotek H An	AVG
5250.00	27.99	16.43	44.42	54.00	-9.58	Y	AVG

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.





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	181	,	40.	PO. 21.	2.4	7,0,0
	TM1 / B	and: 5725-58	350 MHz / BV	N: 20 / L		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
38.12	16.37	54.49	74.00	-19.51	HA H	Peak
39.48	16.37	55.85	74.00	-18.15	Nupo.	Peak
28.99	16.70	45.69	54.00	-8.31 _{mb}	otek H Anbo	AVG
30.10 PM	16.70	46.80	54.00	-7.20	nbotek V A	AVG
	TM1 / B	and: 5725-58	350 MHz / BV	V: 20 / H		
Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
39.05	17.21	56.26	68.20	-11.94	H ^{nb}	Peak
39.41	17.21	56.62	68.20	-11.58	tek V Aupo	Peak
29.05	17.21 And	46.26	54.00	-7.74	notek H An	AVG AVG
29.07	17.21 N	46.28	54.00	7.72	V	AVG
	(dBuV) 38.12 39.48 28.99 30.10 Reading (dBuV) 39.05 39.41 29.05	Reading (dBuV) (dB/m) 38.12 16.37 39.48 16.37 28.99 16.70 30.10 16.70 TM1 / B Reading (dBuV) (dB/m) 39.05 17.21 39.41 17.21 29.05 17.21	Reading (dBuV) Factor (dB/m) Result (dBuV/m) 38.12 16.37 54.49 39.48 16.37 55.85 28.99 16.70 45.69 30.10 16.70 46.80 TM1 / Band: 5725-58 Reading (dBuV) Factor (dB/m) Result (dBuV/m) 39.05 17.21 56.26 39.41 17.21 56.62 29.05 17.21 46.26	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) 38.12 16.37 54.49 74.00 39.48 16.37 55.85 74.00 28.99 16.70 45.69 54.00 30.10 16.70 46.80 54.00 TM1 / Band: 5725-5850 MHz / BV Reading (dBuV) Result (dBuV/m) Limit (dBuV/m) 39.05 17.21 56.26 68.20 39.41 17.21 56.62 68.20 29.05 17.21 46.26 54.00	(dBuV) (dB/m) (dBuV/m) (dBuV/m) (dBuV/m) (dB) 38.12 16.37 54.49 74.00 -19.51 39.48 16.37 55.85 74.00 -18.15 28.99 16.70 45.69 54.00 -8.31 30.10 16.70 46.80 54.00 -7.20 TM1 / Band: 5725-5850 MHz / BW: 20 / H Reading (dBuV) Factor (dBwV/m) Limit (dBuV/m) Over limit (dBwV/m) (dBuV) (dBh/m) 68.20 -11.94 39.05 17.21 56.62 68.20 -11.58 29.05 17.21 46.26 54.00 -7.74	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) Antenna Pol. 38.12 16.37 54.49 74.00 -19.51 H 39.48 16.37 55.85 74.00 -18.15 V 28.99 16.70 45.69 54.00 -8.31 H 30.10 16.70 46.80 54.00 -7.20 V TM1 / Band: 5725-5850 MHz / BW: 20 / H Reading (dBuV) Result (dBuV/m) Limit (dBuV/m) Over limit (dB) Antenna Pol. 39.05 17.21 56.26 68.20 -11.94 H 39.41 17.21 56.62 68.20 -11.58 V 29.05 17.21 46.26 54.00 -7.74 H

Remark:

- 1. Result=Reading + Factor
- 2. During the test, all antenna chains has been tested, and only worst case (ANT1) data is listed in the report.

		TM2 / B	and: 5725-58	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	38.08	17.05	55.13	74.00	-18.87	Anth	Peak
5725.00	38.65	17.05	55.70	74.00	-18.30	Noose	Peak
5725.00	27.57	17.05	44.62	54.00	-9.38	ek H _{Anbote}	AVG
5725.00	38.08 _{28.08}	17.05	45.13	54.00 mb°	-8.87	otek V Anb	AVG
		TM2 / 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
5850.00	37.29	17.21	54.50	68.20	-13.70	AHOTE .	Peak
5850.00	37.92	17.21	55.13	68.20	-13.07	k Nupote	Peak
5850.00	27.54	17.21	44.75	54.00	-9.25	, H you	AVG AVG
5850.00	28.39	ote 17.21 M	45.60	54.00	-8.40 M	A Burn	AVG

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







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							7/1.
		TM2 / B	and: 5725-58	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
5725.00	37.66	17.05	54.71	74.00	-19.29	k Hupoter	Peak
5725.00	38.53 ₀ 00 ⁴	17.05	55.58	74.00 nbon	-18.42	otek V Anbo	Peak
5725.00	27.00	otel 17.05 And	44.05	54.00 M	-9.95	hotel H	AVG
5725.00	28.37	17.05	45.42	54.00	-8.58	, V	AVG
		TM2 / B	and: 5725-58	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	38.02 of	17.21	55.23	68.20	-12.97	tek H anboi	Peak
5850.00	38.42	otek 17.21 Anbo	55.63	68.20 M	-12.57 ·····	V V	Peak M
5850.00	28.19	17.21	45.40	54.00	-8.60	A H	AVG
5850.00	29.30	17.21	46.51	54.00	-7.49	Anbord	AVG

Remark: 1. Result=Reading + Factor

	6//.	70%			V ~ 0 ~	D/1.	
		TM3 / E	Band: 5725-5	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
5725.00	37.32	17.05	54.37	74.00	-19.63	nboie H	Peak
5725.00	37.50	17.05	54.55	74.00	-19.45	No Nok	Peak
5725.00	28.25	17.05	45.30	54.00	-8.70	Horiek	AVG
5725.00	29.03	17.05	46.08	54.00	-7.92	ek V noore	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
5850.00	38.06	17.21	55.27	68.20	-12.93	not Pk	Peak
5850.00	38.95	17.21	56.16	68.20	-12.04	Votek	Peak
5850.00	27.94	17.21	45.15	54.00	-8.85	H de	AVG
5850.00	28.99	17.21	46.20	54.00	-7.80 pote	VANDO	AVG 00

- 1. Result=Reading + Factor
 - 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







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O. by	* *	46, 44,	<u> </u>	- 1/2	Po. by.		7,10.
		TM3 / B	and: 5725-58	850 MHz / BV	V: 40 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	36.27	17.05	53.32	74.00	-20.68	HA H	Peak
5725.00	37.81	17.05	54.86	74.00	-19.14	Nupp.	Peak
5725.00	27.53	17.05	44.58	54.00	-9.42	otek H Anbo	AVG
5725.00	28.23	17.05	45.28	54.00	-8.72	nbotek V A	AVG
		TM3 / B	and: 5725-58	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	37.62	17.21	54.83	68.20	-13.37	H ^{nb}	Peak
5850.00	38.43	17.21	55.64 noot	68.20	-12.56	tek A Vupo,	Peak
5850.00	27.62	17.21 And	44.83	54.00	-9.17	hotek H An	AVG
5850.00	27.22	17.21	44.43	54.00	-9.57	V	AVG

Remark: 1. Result=Reading + Factor

	014.	-0.	~0~	V		01.	-25				
	TM3 / Band: 5725-5850 MHz / BW: 80 / L										
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector				
5725.00	35.55 M	17.05	52.60	74.00	-21.40	botek H Ant	Peak				
5725.00	37.07	17.05	54.12	74.00	-19.88	Votod	Peak				
5725.00	26.54	17.05	43.59	54.00	-10.41	Hek	AVG				
5725.00	27.14	17.05	44.19	54.00	-9.81	Votek	AVG				
		TM3 / B	and: 5725-58	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				
5850.00	37.53	17.21	54.74	68.20	-13.46	nboteH P	Peak				
5850.00	37.85	17.21	55.06	68.20	-13.14	V. V.	Peak				
5850.00	27.90	17.21	45.11	54.00	-8.89	Ans H tek	AVG				
5850.00	28.24	17.21	45.45	54.00	-8.55	AV	AVG				

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







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		TM4 / B	and: 5725-58	350 MHz / BV	V: 20 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	37.25	17.05	54.30	74.00	-19.70	H	Peak
5725.00	37.47	17.05	54.52	74.00	-19.48	N ^u po.	Peak
5725.00	28.21	17.05	45.26 Abo	54.00	-8.74 nb	otek H Anbo	AVG
5725.00	28.95	17.05	46.00	54.00	-8.00	nbotek V Ar	AVG
		TM4 / 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
5850.00	37.99	17.21	55.20	68.20	-13.00	Hup	Peak
5850.00	38.90	17.21	6.11 too	68.20	-12.09	isk A Vupo,	Peak
5850.00	27.89	17.21 hrs	45.10	54.00 M	-8.90	Notek H An	AVG
5850.00	28.91	17.21 N	46.12	54.00	7.88	Y	AVG
- A/A	WAY I		240	V (1).	200	WA	Pro-

Remark: 1. Result=Reading + Factor

		TM4 / B	Band: 5725-58	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
5725.00	36.21	17.05	53.26	74.00	-20.74	H	Peak
5725.00	37.77	17.05	54.82	74.00	-19.18	Anbord	Peak
5725.00	27.49	17.05	44.54	54.00	-9.46	Ant H	AVG
5725.00	28.19	17.05	45.24	54.00	-8.76	Voores	AVG
		TM4 / B	and: 5725-58	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	37.57	17.21	54.78	68.20	-13.42	Yupo, H	Peak
5850.00	38.35	17.21	55.56	68.20	-12.64	Anb V	Peak
5850.00	27.56	17.21	44.77	54.00	-9.23	Hotek	AVG
5850.00	27.14	17.21	44.35	54.00	-9.65	v V potel	AVG

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.







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		TM4 / B	and: 5725-58	350 MHz / BV	W: 80 / L		
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
5725.00	35.50	17.05	52.55	74.00	-21.45	PH	Peak
5725.00	36.99	17.05	54.04	74.00	-19.96	Nupo.	Peak
5725.00	26.46	17.05	43.51 _{pm}	54.00	10.49 NO	otek H Anbo	AVG
5725.00	27.09	17.05	44.14 A	54.00	-9.86	nbotek V A	AVG
		TM4 / B	and: 5725-58	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
5850.00	37.43	17.21	54.64	68.20	-13.56	H ^{nb}	Peak
5850.00	37.77	17.21	54.98	68.20	-13.22	tek A Vupo,	Peak
5850.00	27.77 And	17.21 And	44.98	54.00	-9.02	Lotek H An	AVG
5850.00	28.16	17.21	45.37	54.00	-8.63	V	AVG

- 1. Result=Reading + Factor
- 2. During the test, SISO and MIMO modes have been tested, and only worst case (MIMO) data is listed in the report.





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8. Undesirable emission limits (below 1GHz)

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

8.1. EUT Operation

Operating Environment:

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

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

Test mode:

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

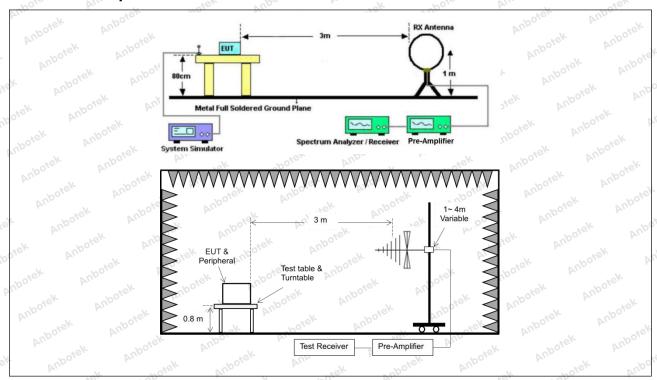
Shenzhen Anbotek Compliance Laboratory Limited





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8.2. Test Setup





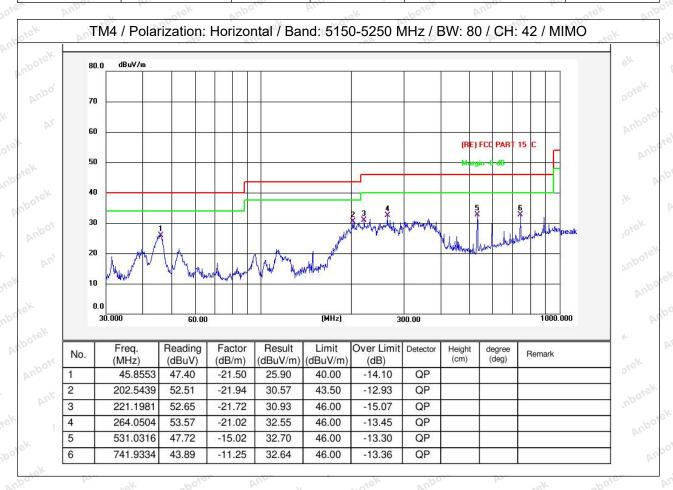


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8.3. Test Data

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

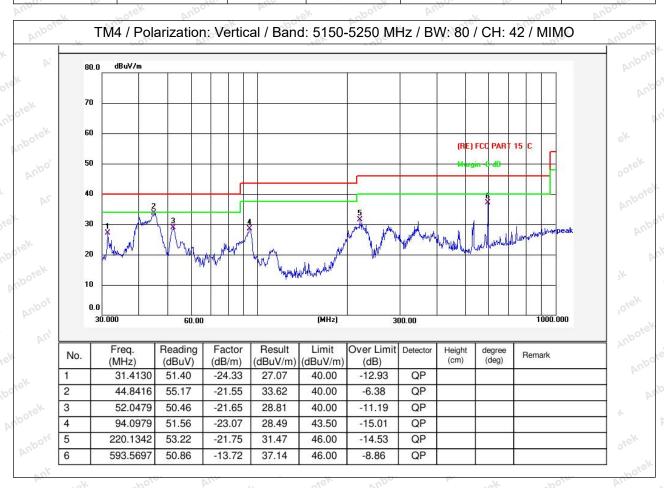
Temperature:	25.3 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa
			120.	(A)	\V . •





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Temperature: 25.3 °C Humidity: 47 % Atmospheric Pressure: 101 kPa



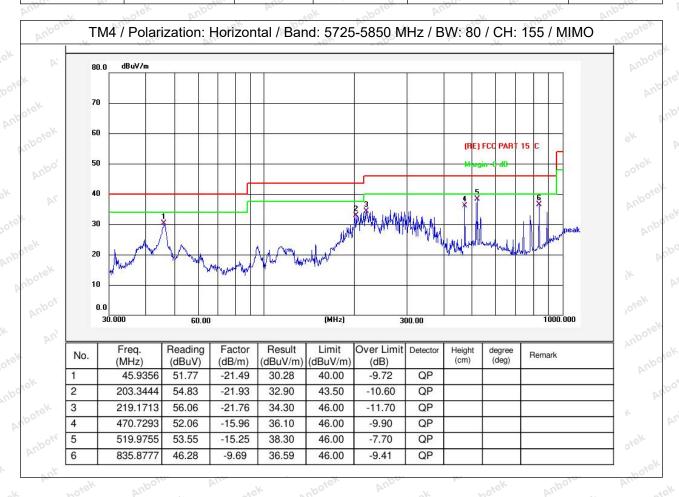
Note: Only record the worst data in the report.





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Temperature: 25.3 °C Humidity: 47 % Atmospheric Pressure: 101 kPa

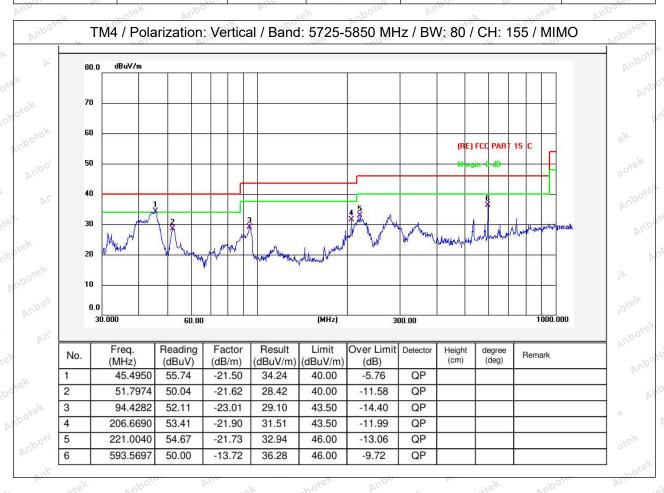






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Temperature: 25.3 °C Humidity: 47 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.









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9. Undesirable emission limits (above 1GHz)

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









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ootek Anbotek		there in this subpart, the emission to the exceed the field strength leve	
	following table:	Anbe	upore Air
Aupo	Frequency (MHz)	Field strength	Measurement
	1 requeries (Wir 12)	(microvolts/meter)	distance
	ootek Anbo	(IIIICIOVOIIS/IIIEIEI)	740, 740
"Upote, Vu	0.000.0.400	0400/E(1115/6)	(meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30 Mpo,
	30-88	100 **	3 botek
	88-216	150 **	ipolg And
	216-960	200 **	3,ek Anbor
	Above 960	500	N 3
	** Except as provided in r	paragraph (g), fundamental emis	ssions from
		ating under this section shall not	
		Hz, 76-88 MHz, 174-216 MHz o	
		these frequency bands is perm	
	sections of this part, e.g.,		PI.
		ve, the tighter limit applies at the	e band edges
		n in the above table are based o	
		i-peak detector except for the fr	
	⇒ 1 90 kHz 110–490 kHz and		
		l above 1000 MHz. Radiated en	
	these three bands are ba	i above 1000 MHz. Radiated en sed on measurements employin	
est Method:	these three bands are ba detector.	sed on measurements employin	
est Method:	these three bands are ba detector. ANSI C63.10-2020, section	sed on measurements employin	
est Method:	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz:	sed on measurements employin on 12.7.4, 12.7.6, 12.7.7	ng an average
est Method:	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the E	sed on measurements employing on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a r	rotating table 1.5
est Method:	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chair	rotating table 1.5
est Method:	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground	sed on measurements employing on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a r	rotating table 1.5
est Method:	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to design and the section of	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic chair	rotating table 1.5 mber. The table wa
est Method:	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to defeat b. The EUT was set 3 medians.	on 12.7.4, 12.7.6, 12.7.7 Output Out	rotating table 1.5 mber. The table wa est radiation. -receiving antenna
est Method: Anborek Anborek Anborek Anborek Anborek Anborek	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to deb. The EUT was set 3 mewhich was mounted on the	on 12.7.4, 12.7.6, 12.7.7 UT was placed on the top of a rat a 3 meter fully-anechoic charactermine the position of the high ters away from the interference top of a variable-height anten	rotating table 1.5 mber. The table wa est radiation. -receiving antenna na tower.
est Method:	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to deb. The EUT was set 3 mewhich was mounted on the c. The antenna height is very section.	on 12.7.4, 12.7.6, 12.7.7 EUT was placed on the top of a rat a 3 meter fully-anechoic charactermine the position of the high ters away from the interference top of a variable-height antenwaried from one meter to four me	rotating table 1.5 mber. The table wa est radiation. -receiving antenna na tower. eters above the
est Method: Anborek Anborek Anborek Anborek Anborek	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to deb. The EUT was set 3 mewhich was mounted on the c. The antenna height is a ground to determine the residue of the determine the re	Sed on measurements employing the control of the top of a restriction of the high term away from the interference top of a variable-height antenivaried from one meter to four measurements.	rotating table 1.5 mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont
est Method: Anborek Anborek Anborek Anborek Anborek Anborek Anborek	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to destable b. The EUT was set 3 memory which was mounted on the c. The antenna height is a ground to determine the rand vertical polarizations	con 12.7.4, 12.7.6, 12.7.7 EUT was placed on the top of a rat a 3 meter fully-anechoic charactermine the position of the high ters away from the interference top of a variable-height antenvaried from one meter to four memaximum value of the field streng of the antenna are set to make	rotating table 1.5 mber. The table wa est radiation. -receiving antenna na tower. eters above the agth. Both horizont the measurement.
est Method: Anborek Anborek Anborek Anborek Anborek Anborek	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to destruct by the EUT was set 3 memory which was mounted on the c. The antenna height is was ground to determine the rand vertical polarizations d. For each suspected en	on 12.7.4, 12.7.6, 12.7.7 Output Out	rotating table 1.5 mber. The table wa est radiation. -receiving antenna na tower. eters above the ngth. Both horizont the measurement. to its worst case
est Method: Anborek Anborek Anborek Anborek Anborek Anborek	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to destruct by the EUT was set 3 memory which was mounted on the c. The antenna height is a ground to determine the reand vertical polarizations d. For each suspected en and then the antenna was	on 12.7.4, 12.7.6, 12.7.7 Output Out	rotating table 1.5 mber. The table war est radiationreceiving antenna na tower. eters above the agth. Both horizont the measurement to to 4 meters (for the table).
est Method: Anborek Anborek Anborek Anborek Anborek Anborek	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to destain the EUT was set 3 memory which was mounted on the c. The antenna height is a ground to determine the rand vertical polarizations d. For each suspected enand then the antenna was test frequency of below 3	on 12.7.4, 12.7.6, 12.7.7 On 12.7.4, 12.7.7 On 12.7.4, 12.7.6, 12.7.7 On 12.7.4, 12.7 On 12.7.4, 12.7	rotating table 1.5 mber. The table watest radiationreceiving antennationatower. eters above the agth. Both horizont the measurement to its worst case to 4 meters (for the beights 1 meter)
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Test Method: Anborek Anborek	these three bands are bandetector. ANSI C63.10-2020, section Above 1GHz: a. For above 1GHz, the Emeters above the ground rotated 360 degrees to destail be a section of the EUT was set 3 mes which was mounted on the c. The antenna height is a ground to determine the rand vertical polarizations d. For each suspected en and then the antenna was test frequency of below 3 and the rotatable table was maximum reading. e. The test-receiver system Bandwidth with Maximum f. If the emission level of the limit specified, then testin would be re-tested one by and then reported in a darker.	Sed on measurements employing the sed on measurements employing the sed on the top of a result at a 3 meter fully-anechoic charactermine the position of the high ters away from the interference e top of a variable-height antendaried from one meter to four measurement of the antenna are set to make the sed of the entenna are set to make the sed of the entenna was tuned to be stuned to heights from 1 meter of the antenna was tuned to set turned from 0 degrees to 360 m was set to Peak Detect Function Hold Mode. The EUT in peak mode was 10d ground be stopped and the peak wise the emissions that did not be one using peak or average means.	rotating table 1.5 mber. The table wa est radiationreceiving antenna na tower. eters above the agth. 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 k values of the EU have 10dB margin ethod as specified

Shenzhen Anbotek Compliance Laboratory Limited



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



case.



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

9.1. EUT Operation

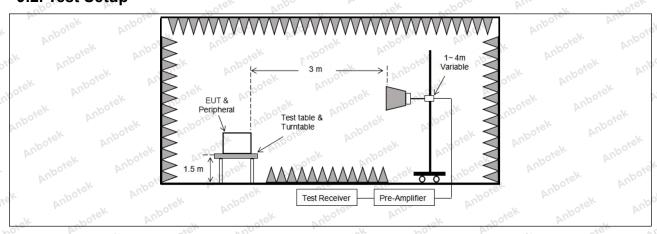
Operating Environment:

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

Test mode:

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

9.2. Test Setup









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9.3. Test Data

Temperature: 25.3 °C Humidity: 47 % Atmospheric Pressure: 101 kPa

- X	TI	M4 / Band: 5	150 5250 ML	17 / BW: 80 /	CH: 42 / MIN	10	- P
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
10420.00	30.06	23.81	53.87	68.20	-14.33	V	Peak
15630.00	30.75	29.36	60.11	68.20	-8.09	Wpogs A	Peak
10420.00	31.00	23.81	54.81	68.20	-13.39	Aupotor	Peak
15630.00	32.25	29.36	61.61	68.20	-6.59	Hotek	Peak
10420.00	20.55	23.81	44.36	54.00	-9.64	Vootek	AVG
15630.00	21.49	29.36	50.85	54.00	-3.15	V V	ek AVG noot
10420.00	20.68	23.81	44.49	54.00	otek -9.51 Anb	H Pub	AVG
15630.00	21.67	29.36	51.03	54.00	-2.97	Upotek H Ar	AVG
	TM	14 / Band: 57	25-5850 MH	z / BW: 80 / 0	CH: 155 / MIN	MO	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over limit (dB)	Antenna Pol.	Detector
11550.000	30.02	23.40	53.42	68.20	-14.78	Nupore	Peak
17325.000	30.69	32.13	62.82	68.20	-5.38	rek V mbot	Peak
11550.000	30.93	23.40	54.33	68.20	-13.87	, H	Peak M
17325.000	31.18	32.13	o ^{ne} 63.31 An	68.20	-4.89	H bu	Peak
11550.000	17.51 A	23.40	40.91	54.00	-13.09	Anborev	AVG
17325.000	18.03	32.13	50.16	54.00	-3.84	ndVer-	AVG
11550.000	17.64	23.40	41.04	54.00	-12.96	Hotek	AVG
17325.000	18.62	32.13	50.75	54.00	-3.25	H	AVG

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





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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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

