

 Report No.:
 18220WC40066702
 FCC ID: 2ATS9-1403E
 Page 1 of 32

# FCC Test Report

Applicant : Cleer Limited

Address SUITE 2706, 27/F SHUION CENTRE NOS. 6-8 HARBOUR ROAD, WANCHAI, HK, China

Product Name : ARC 3 Open Ear Ture Wireless Headphone

Report Date : Apr. 29, 2024



Shenzhen Anbotek



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





FCC ID: 2ATS9-1403E

Page 2 of 32

## Contents

1. General Information			- Nupore.	Ann	6
<ol> <li>General Information</li></ol>	, and the second s	otek politik politik	laren bi	Nester All	7 7 8 9
2. Antenna requirement	k		An	Anhotek	12
2.1. Conclusion	- Charles - Charles	K Hopore.	Ann	lok	
3. Conducted Emission at AC power li	ne	otak	Anbe		
<ul> <li>3.1. EUT Operation</li> <li>3.2. Test Setup</li> <li>3.3. Test Data</li> <li>4. Occupied Bandwidth</li> <li>4.1. EUT Operation</li> </ul>					· · · · · · · · · · · · · · · · · · ·
4. Occupied Bandwidth	Anbo			And	16
1.2 Test Setur			. 22		16
5. Maximum Conducted Output Power	hoten Anb		otek Ant	pore Arr	
<ul> <li>4.3. Test Data</li> <li>5. Maximum Conducted Output Power</li> <li>5.1. EUT Operation</li> <li>5.2. Test Setup</li> <li>5.3. Test Data</li> </ul>					17
6. Power Spectral Density	Anbore	Ann	Reporek	Anbo	18
<ul> <li>5.3. Test Data</li> <li>6. Power Spectral Density</li> <li>6.1. EUT Operation</li> <li>6.2. Test Setup</li> <li>6.3. Test Data</li> </ul>					18
7. Emissions in non-restricted frequen 7.1. EUT Operation	cy bands	100. N.		nbote. A	
<ul> <li>7.1. EUT Operation</li> <li>7.2. Test Setup</li> <li>7.3. Test Data</li> <li>8. Band edge emissions (Radiated)</li> <li>8.1. EUT Operation</li> </ul>					19
8. Band edge emissions (Radiated)	ek popote.	Ann	Anbote	Anbo.	20
<ul> <li>8.1. EUT Operation</li> <li>8.2. Test Setup</li> <li>8.3. Test Data</li> <li>9. Emissions in frequency bands (belo</li> <li>9.1. EUT Operation</li> </ul>					
9. Emissions in frequency bands (belo	w 1GHz)	Anbor Ar			
<ul> <li>9.1. EUT Operation</li> <li>9.2. Test Setup</li> <li>9.3. Test Data</li> <li>10. Emissions in frequency bands (about the set of the set of</li></ul>					
10. Emissions in frequency bands (abo	ove 1GHz)	- Anu-	64	Kek Wupor	27

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Report No.: 18220WC40066702	FCC ID: 2	ATS9-1403E	Pa	age 3 of 3	2nbore
10.1. EUT Operation	A	Anbote. Ar		. Anbotek	27
10.2. Test Setup			An		28
10.3. Test Data	Anbe			PLUT	. 29
APPENDIX I TEST SETUP PHOTOGRAPH	rek Anboten	Anbe	botek	Anbor	32
APPENDIX II EXTERNAL PHOTOGRAPH		tek Anbo.			32
APPENDIX III INTERNAL PHOTOGRAPH	bote. And		ek Aupo	. p	32
le. PUN by					

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Report No.:	18220WC40066702	FCC

FCC ID: 2ATS9-1403E

Page 4 of 32

## TEST REPORT

Applicant :	Cleer Limited
Manufacturer :	Shenzhen Grandsun Electronic Co., Ltd.
Product Name :	ARC 3 Open Ear Ture Wireless Headphone
Test Model No. :	GS8803E
Reference Model No. :	rN/A Anborek Anborek Anborek Anbore Ann
Trade Mark :	Cleer Antonek Anbotek Anbotek Anbotek Anbotek
Rating(s) :	Single Earphone Input: 5V-200mA Single Earphone Capacity: Lithium-ion: DC 3.85V, 110mAh <b>47 CFR Part 15.247</b>
Test Standard(s)	KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2020

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

Date of Receipt:

Date of Test:

Prepared By:

Apr. 01, 2024

Apr. 01, 2024 to Apr. 12, 2024

Ella sian

(Ella Liang)

Idward pan

(Edward Pan)

Approved & Authorized Signer:

#### Shenzhen Anbotek Compliance Laboratory Limited

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## Report No.: 18220WC40066702 FCC ID: 2ATS9-1403E Page 5 of 32

## **Revision History**

Report Ver	rsion		Description			Issued	Date	
R00	abotek Ant	otek	Original Issue.	Anbotek	Anbore.	Apr. 29,	2024	Anbote
k Anbo, P	Anbotek	Anboren otek	Anto	Anbotek	K Anbe	botek	Anbotek	Anbe
otek nabotek	Anboten	Anovebote	k Anbotek	Anbor	A Alek	Anbotek	Anboter	A Ko

Anbc

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#### 18220WC40066702 Report No.:

#### FCC ID: 2ATS9-1403E Page 6 of 32

## 1. General Information

#### 1.1. Client Information

Applicant	:	Cleer Limited
Address	:	SUITE 2706, 27/F SHUION CENTRE NOS. 6-8 HARBOUR ROAD, WANCHAI, HK, China
Manufacturer	:	Shenzhen Grandsun Electronic Co., Ltd.
Address	:	East Park, Gaoqiao Industry Zone, Pingdi Street, Longgang, Shenzhen, China
Factory	:	Shenzhen Grandsun Electronic Co., Ltd.
Address	:	East Park, Gaoqiao Industry Zone, Pingdi Street, Longgang, Shenzhen, China

## 1.2. Description of Device (EUT)

Product Name	:	ARC 3 Open Ear Ture Wireless Headphone
Test Model No.	:	GS8803E
Reference Model No.	:	N/A hotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Cleer Andrea Andrea Andrea Andrea Andrea
Test Power Supply	:	AC 120V/60Hz for adapter; DC 3.85V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A tek Anbotek Anbotek Anbotek Anbotek Anbotek

#### **RF** Specification

-			
Operation Frequency	:	2402MHz to 2480MHz	36
Number of Channel	:	40 Anbotek Anbotek Anbotek Anbotek Anbotek	de
Modulation Type	:	GFSK Anborek Anborek Anborek Anborek	8
Antenna Type	:	FPC Antenna	1
Antenna Gain(Peak)	:	Left earphone: 1.97dBi Right earphone: 1.93dBi	
Demender		The work and a set and the	1

#### **Remark:**

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

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

(3) The EUT consists of two parts, the left and right earphone, both have been tested and only the test data of right earphone recorded in this report.

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## Report No.: 18220WC40066702 FCC ID: 2ATS9-1403E Page 7 of 32

#### 1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
pri sek aboter	And k botek	Anbor	abore Ant

#### 1.4. Description of Test Modes

Pretest Modes	Descriptions
nbotek AnTM1 Antonio	Keep the EUT works in continuously transmitting mode (BLE 1M)
TM2	Keep the EUT works in continuously transmitting mode (BLE 2M)

#### 1.5. Measurement Uncertainty

Uncertainty
3.8dB Anborek Anbo
925Hz
0.76dB
0.76dB
1.24dB
1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
3.53dB
Horizontal: 3.92dB; Vertical: 4.52dB

level using a coverage factor of k=2.

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## Report No.: 18220WC40066702 FCC ID: 2ATS9-1403E

Anbo

Page 8 of 32

Anbo

Anbotek

## 1.6. Test Summary

Test Items	Test Modes	Status
Antenna requirement	An abotek / Anboten	AnuPotek
Conducted Emission at AC power line	Mode1,2	P
Occupied Bandwidth	Mode1,2	PAR
Maximum Conducted Output Power	Mode1,2	P P
Power Spectral Density	Mode1,2	Pek
Emissions in non-restricted frequency bands	Mode1,2	Anbor P ek
Band edge emissions (Radiated)	Mode1,2	P
Emissions in frequency bands (below 1GHz)	Mode1,2	PAND
Emissions in frequency bands (above 1GHz)	Mode1,2	P An
Note: P: Pass N: N/A, not applicable	Anbotek Anbotek A	nboten

Anbote

Ank

N: N/A, not applicable

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#### 1.7. 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.

#### 1.8. Disclaimer

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

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

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## FCC ID: 2ATS9-1403E

Page 10 of 32

#### 1.9. Test Equipment List

Conducted Emission at AC power line

200	· P. V	note. Dur	.0	4	Pr. V	100
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
<u>к</u> 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2024-01-17	2025-01-16
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A Anbo	rek /Anbotek	ek Anbo
	tothe short	p.c.	der MP		10 K	be.

Maxir Powe	pied Bandwidth num Conducted Out r Spectral Density sions in non-restricte	oter And Lak	Anbotek A Anbotek	Anbotek Ar	Anbotek Ar Anbotek	hotek Anbo. Anbotek Ant
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Ant Ant	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/Asnbo	2023-10-16	2024-10-15
<sub>گ</sub> ر 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
An4ote	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-10-12	2024-10-11
5.nb	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6 🖻	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

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FCC ID: 2ATS9-1403E

Page 11 of 32

	edge emissions (Ra sions in frequency ba		Anboren	Anbotek	Anbotek	Anborek	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16	
* <sup>ek</sup> 3	Double Ridged Horn Antenna			02555	2022-10-16	2025-10-15	
<sup>1b</sup> 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	And	Anbotek	
40bc	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>,e¥</sup> 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24	
Yo.	abore Arris	i oten	00p	- ak	10°0	Burn	

Emissions in frequency bands (below 1GHz)

- 100	biolite in inequelity be					
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Antote	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5.nb	EMI Test Software EZ-EMC	SHURPLE	N/A N/A	N/Anbot	ek Anbo	k Anbotek

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FCC ID: 2ATS9-1403E

## 2. Antenna requirement

		Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
		ensure that no antenna other than that furnished by the responsible party
	Test Requirement:	shall be used with the device. The use of a permanently attached antenna or
	Ar otek Anbot	of an antenna that uses a unique coupling to the intentional radiator shall be
8	Anbo K	considered sufficient to comply with the provisions of this section.

### 2.1. Conclusion

The antenna is a FPC Antenna which permanently attached, and the gain of the antenna is Left earphone: 1.97dBi and Right earphone: 1.93dBi. It complies with the standard requirement.

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FCC ID: 2ATS9-1403E

Page 13 of 32

## 3. Conducted Emission at AC power line

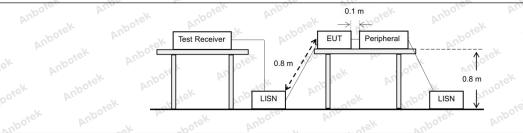
Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the r back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that ny frequency or frequencie of exceed the limits in the fo	nected to the at is conducted s, within the ollowing table, as				
botek Anbort	Frequency of emission (MHz)	Conducted limit (dBµV)	A. sotek				
All boten	Anbo k hotek Anboic	Quasi-peak	Average				
Anbor An	0.15-0.5	66 to 56*	56 to 46*				
Test Limit:	0.5-5 tek prote And	56 botek M	46				
	5-30	60	50 ten And				
	*Decreases with the logarithm of the frequency.						
Test Method:	ANSI C63.10-2020 section 6.2	abotek Anbote.	And				
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un						
3.1. EUT Operation	Anbotek Anbone Alle	stek Anbotek Anbo	otek Anbotek				

## 3.1. EUT Operation

#### **Operating Environment:**

Operating Env	vironment:						
Test mode:	1M)	to the	otek Ant			Anbore.	ng mode (BLE
abotek Anbo	2M)	botek	Anbore	An-	Anbotek	Anbo	Anbotek

#### 3.2. Test Setup



#### Shenzhen Anbotek Compliance Laboratory Limited

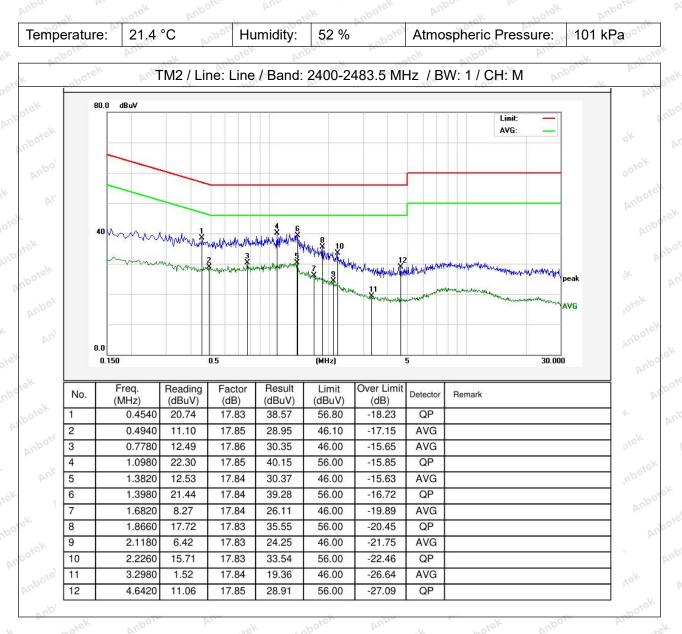
Address:1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755-26066440 Fax:(86)0755-26014772 Email:service@anbotek.com





FCC ID: 2ATS9-1403E Page 14 of 32

## 3.3. Test Data

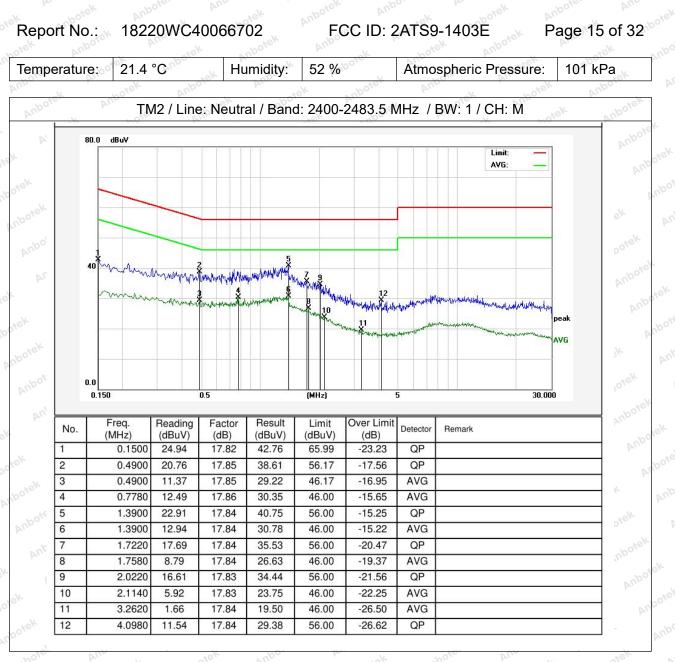


#### Shenzhen Anbotek Compliance Laboratory Limited

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Note: Only record the worst data in the report.

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Anbotek Product Safety

## Report No.: 18220WC40066702

FCC ID: 2ATS9-1403E

Page 16 of 32

## 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek	<ul><li>11.8.1 Option 1</li><li>The steps for the first option are as follows:</li><li>a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.</li></ul>
Anbotek Anbote	b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = may hold
otek Anbotek Anb	<ul> <li>d) Trace mode = max-hold.</li> <li>e) Sweep = No faster than coupled (auto) time.</li> <li>f) Allow the trace to stabilize.</li> </ul>
Procedure:	g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.
tek Anbotek Anb	11.8.2 Option 2 The automatic handwidth measurement canability of an instrument may be
hotek Anbotek A Anbotek Anbotek	The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\ge$ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation
Anbotek Anbotek	function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq$ 6 dB.
Ly Low Martin	

## 4.1. EUT Operation

Operating Envir	ronment: Anbore	Ann	-otek	Anbotek	Anbo	.ek	abotek	Anbore	
Test mode:	1: TX mode(BL 1M) 2: TX mode(BL 2M)	otek	Anbote			abotek	Anbo		

4.2. Test Setup

4.3. Test Dat	ta botek	Anbotek	Anboit	Anbotek	Anboton Anb	ote: Ant
Temperature:	25.5 °C	Ant Hum	nidity: 47 %	Atmo	ospheric Pressu	re: 101 kPa

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FCC ID: 2ATS9-1403E

Page 17 of 32

## 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit: Anborek Anborek Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

#### 5.1. EUT Operation

Operating Envir	onment:	abotek	Anbo		hotek	Anbore		N9.	000
kek nbotek	1: TX mode(BLE	E 1M): Ke	ep the EUT	ˈworks i	in contir	nuously tra	ansmitting	mode (E	3LE
Test mode:	1M) 1001								
Test mode.	2: TX mode(BLE	E 2M): Ke	ep the EUT	works i	in contir	nuously tra	ansmitting	mode (E	3LE
al de	2M)								

#### 5.2. Test Setup

EUT	Spectrum Analyzer

#### 5.3. Test Data

Temperature:	25.5 °C	History	umidity:	47 % pro	Atmospheric Pressure:	101 kPa
DUN	19.	200	h.	V SON	DU.	NON NON

Please Refer to Appendix for Details.

#### Shenzhen Anbotek Compliance Laboratory Limited

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Anbotek Product Safety

#### Report No.: 18220WC40066702

FCC ID: 2ATS9-1403E

## 6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

## 6.1. EUT Operation

Test mode:       1: TX mode(BLE 1M): Keep the EUT works in continuously transmitting mode (BLE 1M)         2: TX mode(BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M): Keep the EUT works in continuously transmitting mode (BLE 2M)	9	Operating Envir	onment:	Anbote.	Ant	-Yek	obotek	Anbo	ek h.	botek
	1	Fest mode:	1M) Anbore	PIL			Anbe	V	hotek	Anbor

## 6.2. Test Setup

		EUT		Spectrum Ana	alyzer	
Ant otek	Anbotek	Ann	abotek	Anbo.	P" botek	

## 6.3. Test Data

Temperature:	25.5 °C	Humidity:	47 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.

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#### Report No.: 18220WC40066702

FCC ID: 2ATS9-1403E

Page 19 of 32

## 7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit: Anborek Anborek Diek Diek Anborek Anborek Anborek Anborek Anborek	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

## 7.1. EUT Operation

Operating Envir	onment:						
tek Anbotek	1: TX mode(BLE 1M)	E 1M): Kee	p the EUT	works in c	ontinuously	transmitting ı	mode (BLE
Test mode:	2: TX mode(BLE 2M)	E 2M): Kee	p the EUT	works in c	ontinuously	transmitting i	mode (BLE
7.2. Test Set	k hotek	Anbo	ek hu	abotek	Anbotek	Anbo.	Anbotek

## 7.2. Test Setup

		EUT	5	Spectru	m Analyz	er			
botek	Anbor	b	otek	Anboter	Ano-	-ek	Ε.	,botek	Anb

#### 7.3. Test Data

Temperature:	25.5 °C	Anbu	Humidity:	47 % M <sup>bono</sup>	Atmospheric P	ressure:	101 kPa	а " <sub>е</sub> к
OUP	No.	~V00.	Pr.	N	No. PUD	5	40	2001

Please Refer to Appendix for Details.

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FCC ID: 2ATS9-1403E

Page 20 of 32

## 8. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	oly with the
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
nbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300 300 300 300 300 300 300 300 300 300
Anbotek Anbote	1.705-30.0 30-88	30 100 **	30
Anboten Ano	88-216 216-960 Above 960	150 ** 200 ** 500	3
Test Limit: prek	** Except as provided in part intentional radiators operation frequency bands 54-72 MH However, operation within the sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a these three bands are base detector.	e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis ed on measurements employing	e located in the 470-806 MHz. ted under other pand edges. measurements juency bands 9– ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		
Procedure:	ANSI C63.10-2020 section	6.10.5.2 M	port Arm hotel

## 8.1. EUT Operation

Operating Envir	onment:	nbotek	Anbo.	K Pri	Hotek	Anboten	Ant	otek N
hotek Anboten	1: TX mode(BLE	1M): Keep	the EUT	works in	continuo	ously trans	mitting m	ode (BLE
Test mode:	1M) 2: TX mode(BLE	2M): Keep	the EUT	works in	continuo	ously trans	mitting m	ode (BLE
And	2M)	ak ni	otek p	nboter	And	dek.	nbotek	Anbo.

#### Shenzhen Anbotek Compliance Laboratory Limited

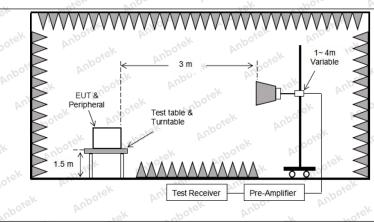
Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





## FCC ID: 2ATS9-1403E Page 21 of 32

#### 8.2. Test Setup



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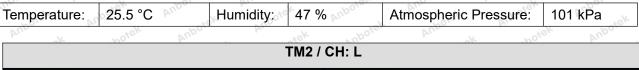


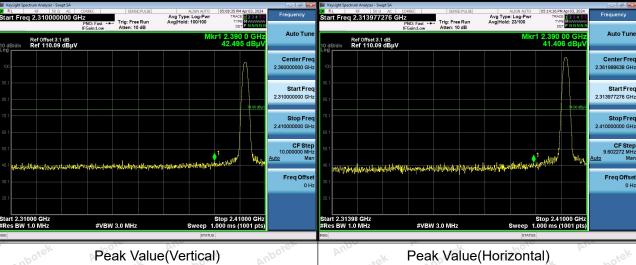


FCC ID: 2ATS9-1403E

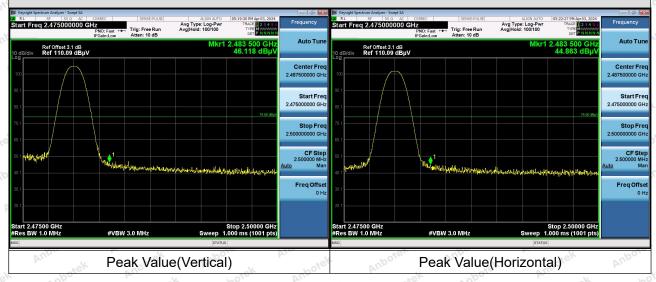
Page 22 of 32

#### 8.3. Test Data









#### Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 2. When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.

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FCC ID: 2ATS9-1403E

Page 23 of 32

## 9. Emissions in frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).							
Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
k hotek	0.009-0.490	2400/F(kHz)	300 Anbore					
nboten And	0.490-1.705	24000/F(kHz)	30 Jotek					
A stek Anbore.	1.705-30.0	30° http://www.atek	30					
Anbo k botek	30-88	100 **	3rek Anbore					
Anboren Anb	88-216	150 **	3					
A. sotek Anbote	216-960	200 **	3 boten Aun					
Test Limit:	Above 960	500 Andrew Andrew	3 notek And					
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek tek Anbotek Anbote	intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emis	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in					
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ek Anbote.					
Procedure:	ANSI C63.10-2020 section	6.6.4	por Ann potek					

## 9.1. EUT Operation

Operating Envir	onment:	Anbotek	Anbo.	ek.	botek	Anboten	Ann	stek M
hotek Anboter	1: TX mode(BLE	1M): Keep	the EUT	works in	continuo	usly transr	nitting mo	ode (BLE
Test mode:	1M) 2: TX mode(BLE	2M): Keep	the EUT	works in	continuo	usly transr	nitting mo	ode (BLE
Ann	2M) And	ak n	otek	Anbore	Ann	495 M	botek-	Anbo

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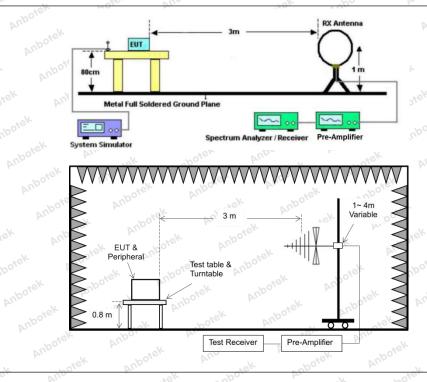
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





## FCC ID: 2ATS9-1403E Page 24 of 32

## 9.2. Test Setup



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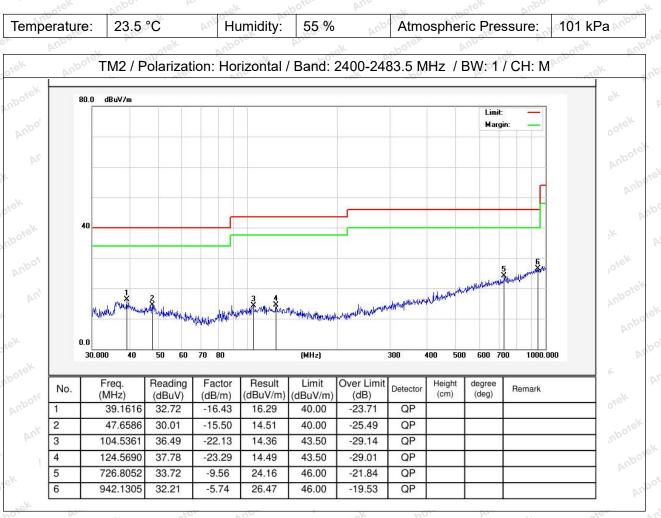




#### FCC ID: 2ATS9-1403E Page 25 of 32

## 9.3. Test Data

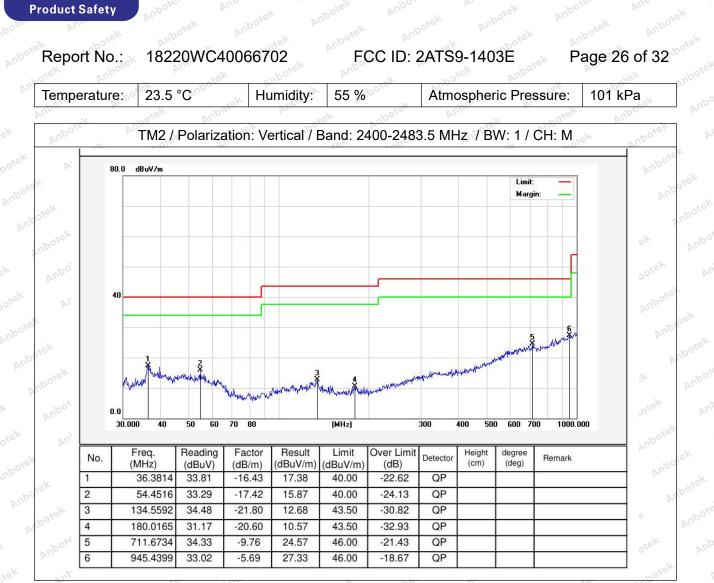
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.



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Note: Only record the worst data in the report.

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Anbotek Product Safety

## Report No.: 18220WC40066702

FCC ID: 2ATS9-1403E

Page 27 of 32

## 10. Emissions in frequency bands (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).							
Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
e handlek	0.009-0.490	2400/F(kHz)	300 000					
nboten Anbo	0.490-1.705	24000/F(kHz)	30 otek					
Ar hotek unboter	1.705-30.0	30° At no	30					
Anbo	30-88	100 **	3 ok noore					
aboten Anbo	88-216	150 **	3					
Ar. stek unbote	216-960	200 **	3 boten And					
Anbo	Above 960	500 MARCANO	3 stek anb					
Test Limit: Stell Anborek	intentional radiators operati frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissi ing under this section shall not b iz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt § 15.231 and 15.241. e, the tighter limit applies at the b in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emise ed on measurements employing	e located in the 470-806 MHz. aed under other band edges. measurements uency bands 9– ssion limits in					
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ek Anbore					
Procedure:	ANSI C63.10-2020 section	6.6.4 Ant	por Arr					

## 10.1. EUT Operation

Operating Envir	onment:	nbotek	Anbor	k Kr	botek	Anboter	And	dek N
hotek Anboten	1: TX mode(BLE	: 1M): Kee	p the EUT	works in	continuo	usly trans	mitting m	ode (BLE
Test mode:	1M) 2: TX mode(BLE	: 2M): Kee	p the EUT	works in	continuo	usly trans	mitting m	ode (BLE
Ann	2M)	- M	notek p	nbore	Ann	Hek .	nbotek	Anbo

#### Shenzhen Anbotek Compliance Laboratory Limited

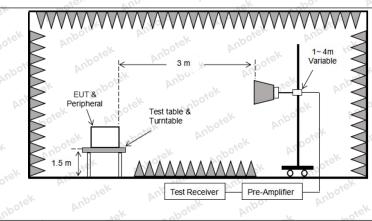
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)0755–26066440 Fax:(86)0755–26014772 Email:service@anbotek.com





## FCC ID: 2ATS9-1403E Page 28 of 32

#### 10.2. Test Setup



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Anbotek Product Safety

#### Report No.: 18220WC40066702

FCC ID: 2ATS9-1403E

Page 29 of 32

#### 10.3. Test Data

Temperature:	25.5 °C	No.	Humidity:	47 % Antone	Atmospheric Pressure:	101 kPa
VUr.	- at	. YOU.	Pr.	· · · · · · · · · · · · · · · · · · ·	PUP.	rek vo.

		-	TM2 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	29.59	15.27	44.86	74.00	-29.14	Vertical
7206.00	29.46	18.09	47.55	74.00	-26.45	Vertical
9608.00	30.69	23.76	54.45	74.00	-19.55	Vertical
12010.00	Anbote * Ar	n ek	hotek Anb	74.00	otek Anbott	Vertical
14412.00	Anbo*ek	Anbo	botek P	74.00	stek snt	Vertical
4804.00	29.16	15.27	44.43	74.00	-29.57	Horizontal
7206.00	30.40	18.09	48.49	74.00	-25.51	Horizontal
9608.00	28.60	23.76	52.36	74.00	-21.64	Horizontal
12010.00	potek * Anbo	not no	rek Anbote.	74.00	L nbotek	Horizontal
14412.00	botek* An	port Arr	otek anbo	74.00	walk woote	Horizontal

#### Average value:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	17.86	15.27	33.13	54.00	-20.87	Vertical
7206.00	18.51 18.51	18.09	36.60	54.00	-17.40	Vertical
9608.00	20.16	23.76	43.92	54.00	-10.08	Vertical
12010.00	notet.	Anboten An	-iek	54.00 × 54	-K - N	Vertical o
14412.00	And *	abotek	Anbo, A.	54.00	bote. And	Vertical
4804.00	17.49	15.27	32.76	54.00	-21.24	Horizontal
7206.00	19.43	18.09	37.52	54.00	-16.48	Horizontal
9608.00	18.11 pore	23.76	41.87	54.00	-12.13	Horizontal
12010.00	sek *	otek Anbo.	ak not	54.00	And	Horizontal
14412.00	hoo *	hotek Ant	ote. And	54.00	ek Anbo	Horizontal
		Clar.	10.	6 Y 1 Y 1	N	10 000

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FCC ID: 2ATS9-1403E

Page 30 of 32

		٦	ГМ2 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	29.14	15.42	44.56	74.00	-29.44	Vertical
7320.00	29.43	18.02	47.45	74.00	-26.55	Vertical
9760.00	30.19	23.80	53.99	74.00	-20.01	Vertical
12200.00	ek * abotek	Anbor	pr. wotek	74.00	Aup	Vertical
14640.00	* *	rek Anbore	Ann	74.00	Anbor	Vertical
4880.00	28.97	15.42	44.39	74.00	-29.61	Horizontal
7320.00	30.27	18.02	48.29	74.00	-25.71 volt	Horizontal
9760.00	28.32	23.80	52.12	74.00 PM	-21.88	Horizontal
12200.00	* sotek	Anboten	And	74.00	upor pr.	Horizontal
14640.00	Ant stek	nbotek	Anbort	74.00	Anboro	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	17.95	15.42	33.37	54.00	-20.63	Vertical
7320.00	18.37	18.02	36.39	54.00	17.61 And	Vertical
9760.00	20.01	23.80	43.81	54.00	-10.19	Vertical
12200.00	k Anbore	An	Anbotek	54.00	-botek	Vertical
14640.00	otek * Anboth	Aup	ek sootek	54.00	Americk	Vertical
4880.00	17.60	o <sup>tek</sup> 15.42 http://www.	33.02	54.00	-20.98	Horizontal
7320.00	19.78	18.02	37.80	54.00	-16.20	Horizontal
9760.00	18.41	23.80	42.21	54.00	ote - 11.79 prof	Horizontal
12200.00	Antortek	Anbo.	abotek	54.00 <sup>M</sup>	- otek Al	Horizontal
14640.00	* botek	Anbore	Mr	54.00	And	Horizontal

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otek Anbote	Annotek	nbotek	Anbo	botek	Anbore	otek
			TM2 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.27	15.58	44.85	74.00	ote <sup>k</sup> -29.15 m	Vertical
7440.00	29.59	17.93	47.52	74.00	-26.48	Vertical
9920.00	30.89	23.83	54.72	74.00	-19.28	Vertical
12400.00	* wotek	Anboten	And	74.00	Anboi	Vertical
14880.00	* And	ek nootel	Anbo	74.00	Anboten	Vertical
4960.00	29.11 M	15.58	44.69	74.00	-29.31	Horizontal
7440.00	30.48	17.93	48.41	74.00	-25.59	Horizontal
9920.00	28.70	23.83	52.53	74.00	-21.47	Horizontal
12400.00	And *	hotek	Anboi	74.00	inbote. Al	Horizontal
14880.00	Ar*Do.	hotek	Anbore	74.00	anbotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	19.07	15.58	34.65	54.00	-19.35	Vertical
7440.00	19.64	17.93	37.57	54.00	-16.43	Vertical
9920.00	20.66	23.83	44.49	54.00	-9.51	Vertical Vertical
12400.00	* * nbotek	Anbo	hotek	54.00	Antoniek	Vertical
14880.00	* soot	Anboro	Ann	54.00	Anbo	Vertical
4960.00	18.78	15.58 no <sup>ot</sup>	34.36	54.00	-19.64	Horizontal
7440.00	20.58	17.93	o <sup>tek</sup> 38.51 pm <sup>00</sup>	54.00	-15.49	Horizontal
9920.00	18.56	23.83	42.39	54.00 M	-11.61	Horizontal

#### Report No.: 18220WC40066702

FCC ID: 2ATS9-1403E

Page 31 of 32

#### Remark:

12400.00

14880.00

- 1. Result =Reading + Factor
- "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

54.00

54.00

3. Only record the worst data in the report.

\*

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Horizontal

Horizontal



## Report No.: 18220WC40066702 FCC ID: 2ATS9-1403E Page 32 of 32

## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

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

## APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

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

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