

Anbotek

**Address** 





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# FCC Test Report

Applicant : GODOX PHOTO EQUIPMENT CO.,LTD

1st to 4th Floor, Building 2/1st to 4th Floor,

Building 4 ,Yaochuan Industrial Zone, Tangwei

Community, Fuhai Street, Baoan District,

Shenzhen, 518103 China

Product Name : Bluetooth module

Report Date : Sept. 14, 2023

Shenzhen Anbotek

Shenzhen Anbotek

Anbotek

Product Solar

Approved \*\*

Approved \*





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# TEST REPORT

Applicant : GODOX PHOTO EQUIPMENT CO.,LTD

Manufacturer : GODOX Photo Equipment Co.,Ltd.

Product Name Bluetooth module

Test Model No. : LK8620B

Reference Model No. : N/A

Trade Mark : GOGOX

Rating(s) : Input: 3.3V---

Test Standard(s) : 47 CFR Part 15.247

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.	"Upo.	No.	-thOfto.	Aug. 51, 2023	- Tolk	" Upo.
Anborek Anbo.	hr.	Aupolis	Villa.	anbotek	Anbo	abotok
Date of Test:	yr potole	Vupo <sub>les</sub> ,	Aug. 31,	, 2023 to Sept.	08, 2023	· polek
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Prepared By:	"Upoje" V	Upper	motel.	Anbore A	N. C.	VIDOLSE.
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Anbores Anbo	r Jpolsk	Wugouga - W	Pur Pulley	Augotor	Wuppe	abotek
anbotek Anbo	wek spojek	Anholes.	Tool	'ward	Down	iok "apo <sub>li</sub>
Approved & Authorize	d Signer:	iek Aupolie	Du.	atek Anboi	Nr. Wupo,	- ok
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# **Revision History**

	Report Version	Description	Issued Date
	Anhorse R00 mbotels Anti	Original Issue.	Sept. 14, 2023
NE	Walk Wilder Wilder	Inposer Autobalia Aupotek	s abotek Anbotek Anb
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### 1. General Information

### 1.1. Client Information

V112.	- 45/V2b	
Applicant	:	GODOX PHOTO EQUIPMENT CO.,LTD
Address	:	1st to 4th Floor, Building 2/1st to 4th Floor, Building 4 ,Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, 518103 China
Manufacturer	:	GODOX Photo Equipment Co.,Ltd.
Address	:	4th Floor of Building 1, 1st to 4 th Floor of Building 2, 4th Floor of Building 3,1st to 4th Floor of Building 4, Yaochuan Industrial Zone, Tangwei Community, Fuhai Street, Bao'an District, Shenzhen 518103,China
Factory	:	SHENZHEN LINKIING TECHNOLOGY CO., LIMITED
Address	:	Floor 2, Building 5, Lihe Industrial Area, 1055 SongBai Road, Xili Town, Nanshan District, Shenzhen, China

# 1.2. Description of Device (EUT)

"100, hy.,		The state of the s
Product Name	:	Bluetooth module
Test Model No.	:	LK8620B
Reference Model No.	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	"QOQOX of Mulocon of M
Test Power Supply	:	DC 3.3V from Debugger Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A abovek Anbovek Anbovek Anbovek Anbovek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40 sk Anbotek Anbotek
Modulation Type	:	GFSK* Anborest Anborest Anborest Anborest
Antenna Type	:	PCB Antenna Antonia An
Antenna Gain(Peak)	:	2.32dBi orek Aribonek Aribonek Aribonek Aribonek
Remark:	9	rely degree and authorized authorized

#### 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.







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# 1.3. Auxiliary Equipment Used During Test

		71.					- 607	
Title		Manufacturer		Model No.	Serial No.			
Acer Com Adapte	. D. I. A.	te-On Techno Corporation		PA-1650-58	<sup>Vupole</sup> k	KP065	503020	nbote
Acer Com	puter	acer	Anbore	N19W3	PU/po	2020A	\J3862	olo
Debugger A	Adapter Taili	ng Microelect Shanghai) Co.,	ronics , Ltd	TLSRGSOCBK	56B 💉	Pogger VV	l potell	8

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### 1.4. Operation channel list

-600 .	No.	The .	VUP.	- ~V-	-140°	Day.	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1 <sub>p,n</sub> boss	2404	11 00	2424	21	2444 <sub>0</sub> 000000000000000000000000000000000	31	2464
Nell 2 Ant	2406	12	2426 Maria	22	2446 AND	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
An 5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7,000	2416	17,000	2436	. 27 <sub>100</sub> 01	2456	37	2476
olok 8 Map	2418	18 M	2438	28	2458 M	38	2478
botel 9	2420	19	2440	29	2460	, 39	2480

# 1.5. Description of Test Modes

	Pretest Modes	Descriptions
M	Arthoris TM1 Arthur Art	Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation.

### 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dBreek Anthonek Anthonek
Occupied Bandwidth	925Hzpones Anbound
Conducted Output Power	0.76dB, noores Andrew Andrew Andrew
Conducted Spurious Emission	1.24dB Aribone Andrew Antrone An
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dBareak Ambourt
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
Antenna requirement	W. Woles	P
Conducted Emission at AC power line	Mode1	Р
Occupied Bandwidth	Mode1	Р
Maximum Conducted Output Power	Mode1	nbo" P
Power Spectral Density	Mode1	AND P
Emissions in non-restricted frequency bands	Mode1 Mode1	P
Band edge emissions (Radiated)	Mode1	P
Emissions in frequency bands (below 1GHz)	Mode1	Р
Emissions in frequency bands (above 1GHz)	Mode1	P.
Note: P: Pass	upp. Vipolek	W.Up.Outer

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.:184111

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. 184111.

#### 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.518128

#### 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	Vupo <sub>ta</sub>	V 100,18	is Multiple	Wupa
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2022-10-23	2023-10-22
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	2022-10-13	2023-10-12
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	iek langink	And borek

Occupied Bandwidth
Maximum Conducted Output Power
Power Spectral Density

Emissions in non-restricted frequency bands

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1,00	MXG RF Vector Signal Generator	Agilent Agilent	N5182A	MY481806 56	2022-10-13	2023-10-12
2	Power Meter	Agilent	N1914A	MY500011 02	2022-10-26	2023-10-25
3	DC Power Supply	IVYTECH	IV3605	1804D360 510	2022-10-22	2023-10-21
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5	Oscilloscope	Tektronix	MDO3012	C020298	2022-10-19	2023-10-18

	edge emissions (Ra sions in frequency b		Zpotek Vuj	oo <sub>dely</sub> Vu	2010 NUP	otek Anboiek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
not 1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2022-10-13	2023-10-12
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	inbotek / Anbo	And Androi
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2022-10-23	2023-10-22
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
700	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24





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1401	100	NO.	- 4/4	700,	39.	"40" "W	10-
Emis	sions in frequency b	ands (below 1GHz)	Vupo <sub>se</sub>	Plan	Aupoten.	Pupe Stok	anboyak.
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	Anbore
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22	ant
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22	<b>N</b>
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22	potolk
48	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Vupoles	W. W	Aupolek
Pupoy	West Vipolish	Pupolok Wipoda	ok Aupotsk	Aupolo	iek vijojek	Mootok	WUPOLE

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### 2. Antenna requirement

Anbore Anbore	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to
Vulgar 18 2010 18	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
we who	of an antenna that uses a unique coupling to the intentional radiator shall be
V. Vipo.	considered sufficient to comply with the provisions of this section.

### 2.1. Conclusion

The antenna is a PCB antenna which permanently attached, and the best case gain of the antenna is 2.32 dBi . It complies with the standard requirement.





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400-003-0500



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# 3. Conducted Emission at AC power line

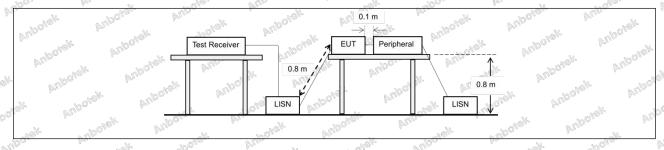
Anbortek Anbortek	Refer to 47 CFR 15.207(a), Excep section, for an intentional radiator public utility (AC) power line, the ra	that is designed to be con adio frequency voltage tha	nected to the it is conducted
Test Requirement:	back onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 μH/50 ohms (LISN).	exceed the limits in the fo	ollowing table, as
unboyek Anboyek	Frequency of emission (MHz)	Conducted limit (dBµV) Quasi-peak	Average
Test Limit:	0.15-0.5 0.5-5	66 to 56*	56 to 46*
er Aupolek Aupole	5-30 *Decreases with the logarithm of the	60 ne frequency.	50 Per And
Test Method:	ANSI C63.10 section 6.2	Principoles Vilpoles	Vuga Viele
Procedure:	Refer to ANSI C63.10 section 6.2, conducted emissions from unlicens		ac power-line

### 3.1. EUT Operation

	Operating Envir	onment:	Villa Cole	Piles.	* Upoles	Vup.	POLOK.	Aupo
Ve	Test mode:	6-m,(C) **	5320	EUT connect	1.000	line and works	in continuou	sly No

# 3.2. Test Setup

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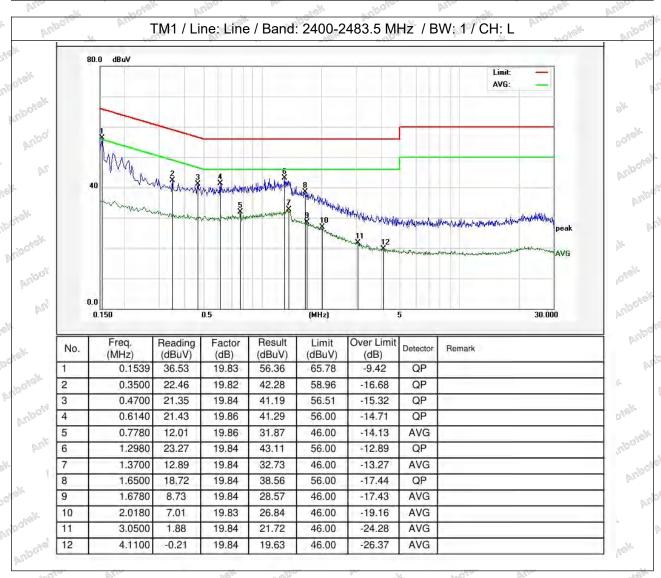
400-003-0500



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### 3.3. Test Data

Temperature: 24.5 °C Humidity: 61 % Atmospheric Pressure: 96 kPa



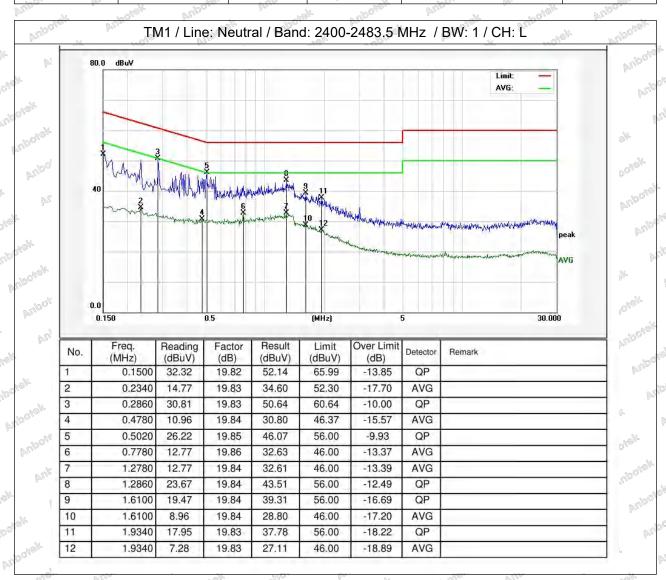






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Temperature: 24.5 °C Humidity: 61 % Atmospheric Pressure: 96 kPa







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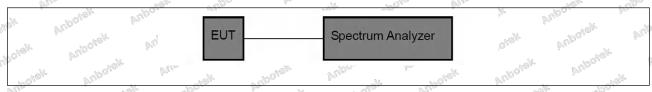
# 4. Occupied Bandwidth

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, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
nbotek Anbotek Anbotek Anbotek	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
Anborek Anbor	b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold.
Hop William William	e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize.
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
Anboiek Anboie	amplitude" value, then it shall be as close as possible to this value.
ek Aupore Au	11.8.2 Option 2 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
Vipotek Vipotek	functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function.
Anborek Anbore	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 ≥ 6 dB.

# 4.1. EUT Operation

Operating En	vironment:	Vun	Anipolisie	Vupo.	~ N.	- abotek	AUDOLO
Test mode:	1: TX mode: Keep	the EUT con	nect to AC p	ower line	and wor	ks in cont	inuously
rest mode.	transmitting mode	with GFSK n	nodulation.	A.	Potely.	Anbo.	h. Alek

### 4.2. Test Setup



# 4.3. Test Data

Temperature:	25.3 °C	la.	Humidity:	48 %	Ans	Atmospheric Pressure:	102 kPa	a <sub>NOON</sub> e

Please Refer to Appendix for Details.









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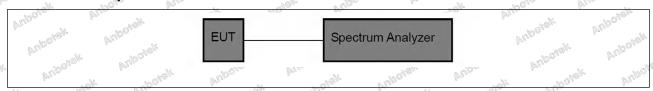
# 5. Maximum Conducted Output Power

47 CFR 15.247(b)(3)
47 OT (10.247 (D)(O)
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.
Self Control of the C
ANSI C63.10 section 11.9.1
KDB 558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10, section 11.9.1 Maximum peak conducted output power

### 5.1. EUT Operation

Operating Environment:	-10h	~V/00
Test mode:  1: TX mode: Keep the EUT connect to AC power line and works transmitting mode with GFSK modulation.	in continuously	~ ~ ~ ~

# 5.2. Test Setup



### 5.3. Test Data

30	Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa	

Please Refer to Appendix for Details.





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### 6. Power Spectral Density

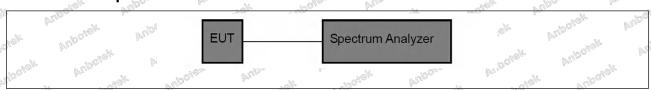
Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power 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, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10, section 11.10, Maximum power spectral density level in the fundamental emission

# 6.1. EUT Operation

colle	W	7 5.0	4 - (3) -	102/11/2	0.6387	-0/0
Operating Envi	ronment:	Pupolo	Vu <sub>D</sub>	* upotek	W.post	bu.
Test mode:	1: TX mode: Kee transmitting mod	- 200		ower line and	d works in cor	ntinuously

### 6.2. Test Setup

Anbotak



#### 6.3. Test Data

Temperature: 25.3 °C	Humidity: 48 %	Atmospheric Pressure: 102 kPa
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Please Refer to Appendix for Details.





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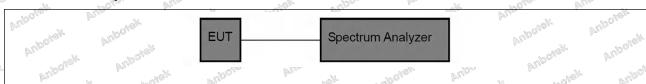
### 7. Emissions in non-restricted frequency bands

47 CFR 15.247(d) 210 And							
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.							
ANSI C63.10 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02							
ANSI C63.10 Section 11.11.2, Section 11.11.3							

### 7.1. EUT Operation

Operating Env	ironment:	abotek.	Aupolo	Ville	Anboyek	Vupo.	70° - 10°
Test mode.	100	6/10	JT connect to FSK modulati		line and work	s in continu	uously

# 7.2. Test Setup



### 7.3. Test Data

- 1	Me. Van	- Color	100	Been or	ollo.	. 0/6	1
-1	Tomorofile	OF 3 °C	Lluvoidity	48 %	Atmoorbaria Dragguras	100 100	П
30	Temperature:	25.3 °C	Humidity:	40 %	Atmospheric Pressure:	I IUZ KPa	ı
50		10-11VUIA			- berrie - berrie	D.To.	П

Please Refer to Appendix for Details.



Hotline



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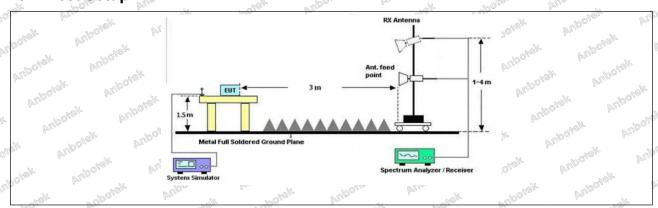
# 8. Band edge emissions (Radiated)

V C.I.	la V	746	all IAV
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	ly with the
k "Upolok Wupo,	Frequency (MHz)	Field strength	Measurement
rek abovek An	olek Wupc	(microvolts/meter)	distance (meters)
O. Br.	0.009-0.490	2400/F(kHz)	300
Sportelle Autor	0.490-1.705	24000/F(kHz)	30
Ar. Allboyen	1.705-30.0	3000	30
Vilos. A profession	30-88	100 **	3.ell
To at Dinait.	88-216	150 **	3
Test Limit:	216-960	200 ***	3 Police
P. W. P. C.	Above 960	500	3 10
otek Andorten And	** Except as provided in pa intentional radiators operati	ragraph (g), fundamental emissi ing under this section shall not b	ons from e located in the
Totale Mupa,		z, 76-88 MHz, 174-216 MHz or	
Upolek Vupolek	However, operation within t sections of this part, e.g.,	hese frequency bands is permitt	ed under other
We Wholes	§§ 15.231 and 15.241.	August William William	Pur Vu
Test Method:	ANSI C63.10 section 6.10 KDB 558074 D01 15.247 M	leas Guidance v05r02	Vupotes, Vupo
Procedure:	ANSI C63.10 section 6.10.5	5.2 Androis	Vu.

# 8.1. EUT Operation

	- C.J. v   DEV -	D-655.	- 409	* W	to an ICE V	62070
Operating Env	rironment:	Aupo	Wolfelf.	Anboyer	Will Walk	*Upolek
Test mode:	1: TX mode: Keep transmitting mode	555	27722	ver line and v	vorks in contin	uously

# 8.2. Test Setup





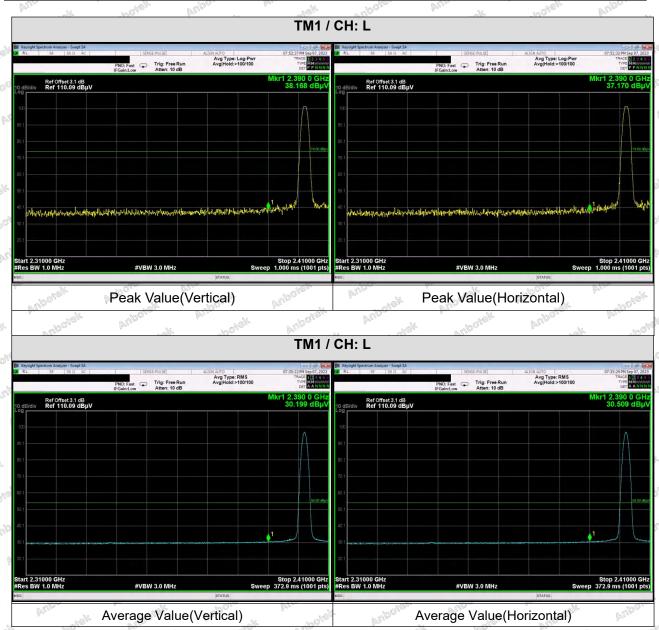


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### 8.3. Test Data

Anbotek

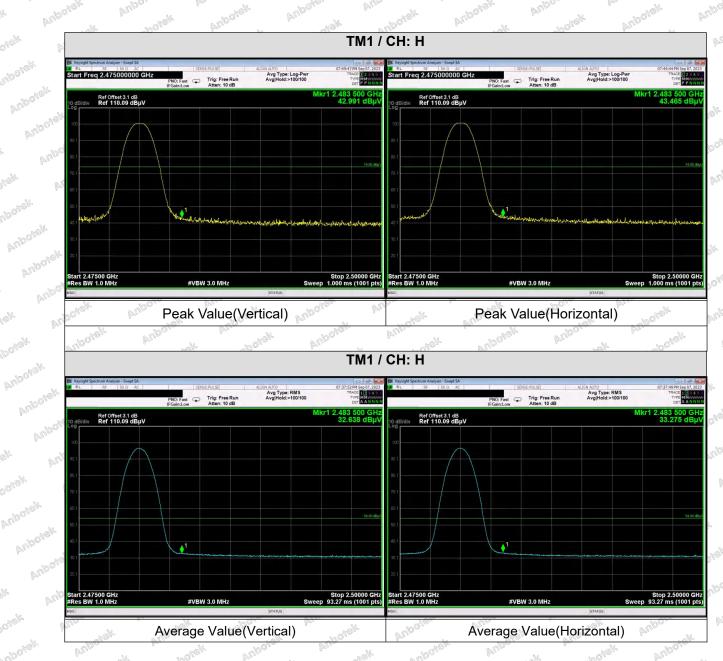
Temperature: 25.3 °C Humidity: 48 % Atmospheric Pressure: 102 kPa







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

Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also compectified in § 15.209(a)(see § 15.20	ly with the
ek Aupolek Aupol	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
upotak Anbotak	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Wipotek Wipotek	1.705-30.0 30-88	100 **	30
Test Limit:	88-216 216-960 Above 960	150 ** 200 ** 500	3
ctek Anbotek Anb	** Except as provided in pa intentional radiators operati	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or 4	ons from e located in the
Anborek Anborek		hese frequency bands is permitt	
Test Method:	ANSI C63.10 section 6.6.4 KDB 558074 D01 15.247 M	leas Guidance v05r02	Will all the Williams
Procedure:	ANSI C63.10 section 6.6.4	tek Upotek Pupote	Pur Paisk

# 9.1. EUT Operation

Operating En	vironment:	* Upolisk	Pupo,	*/r	Notion!	Anholes	BUSE	Yes	anborelle
Test mode:	- ML	ton (D) **			2:65	er line and v	vorks in	continue	ously
Top: mode:	transmitt	ing mode v	vith GFSK	modulat	ion.	lisso.	-e <sup>V</sup> -	-abolies.	War





P.Upole

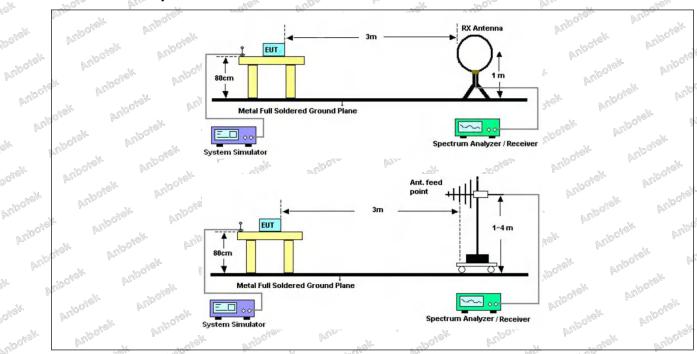
Anborek

Anhorek

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Anbotek

#### 9.2. Test Setup



Anborek

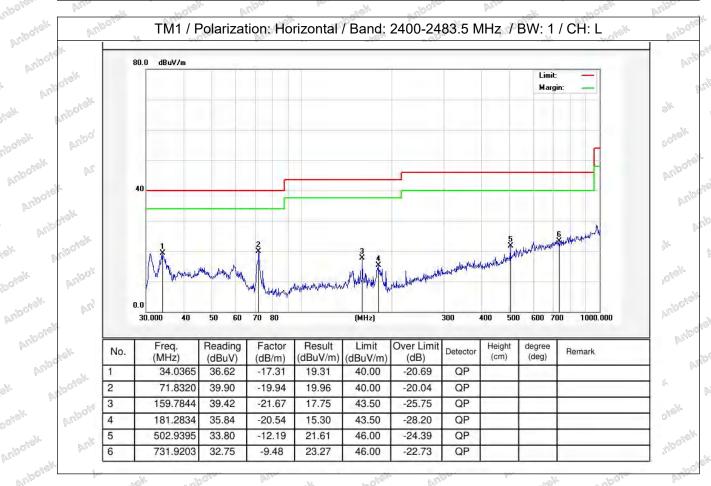




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#### 9.3. Test Data

Temperature: 24.4 °C Humidity: 50.1 % Atmospheric Pressure: 101 kPa

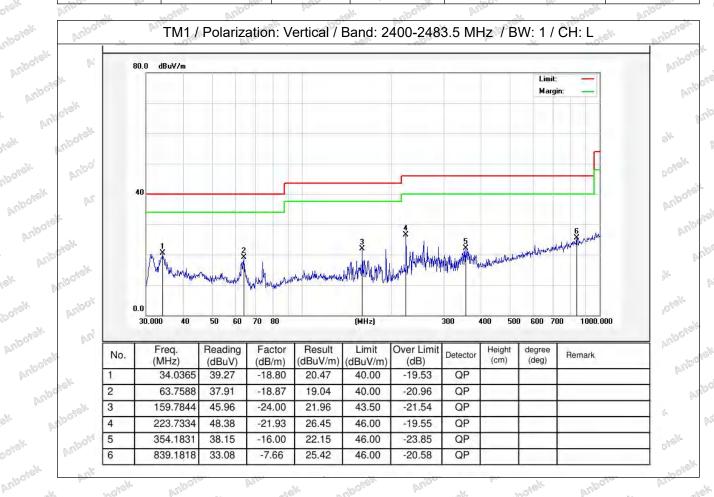






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Temperature: 24.4 °C Humidity: 50.1 % Atmospheric Pressure: 101 kPa







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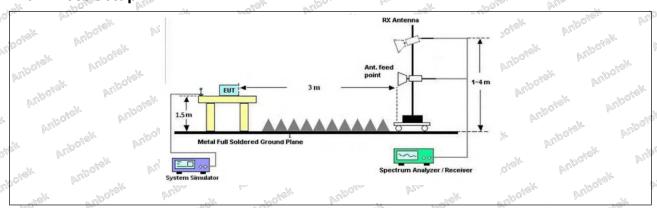
# 10. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted background $S(x)$ omply with the radiated emission $S(x)$ .	
ek Vupotek Vupot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
unjotak Anbotak	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Anborek Anbore	1.705-30.0 30-88 88-216	100 ** 150 **	30
Test Limit:	216-960 Above 960	200 ** 500	3 mels and
riek Anbotek Anb	intentional radiators operati	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or 4	e located in the
Anbotek Anbotek		hese frequency bands is permitt	
Test Method:	ANSI C63.10 section 6.6.4 KDB 558074 D01 15.247 M	leas Guidance v05r02	Anbores Anbo
Procedure:	ANSI C63.10 section 6.6.4	tek sopojek bupoje	Pur Vi

# 10.1. EUT Operation

	- C.J. v   DEV -	D-655.	- 409	* W	to an ICE V	62070
Operating Env	rironment:	Aupo	Wolfelf.	Anboyer	Will Walk	*Upolek
Test mode:	1: TX mode: Keep transmitting mode	555	27722	ver line and v	vorks in contin	uously

# 10.2. Test Setup







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### 10.3. Test Data

T	04.4.90	L I : -I:4	1 0/ 100	Atalana Dana and	404 100-
Temperature:	24.4 °C	Humidity: 50.	1 %	Atmospheric Pressure:	101 kPa

	Vu.	horell Andre		TIGH NODIL	ATTE	-1001°CF	Aupo	
TM1 / CH: L								
10%	Peak value:							
,c	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
100	4804.00	29.00	15.27	44.27	74.00	-29.73	Vertical	
	7206.00	41.65	18.09	59.74	74.00	-14.26	Vertical	
Ī	9608.00	30.00	23.76	53.76	74.00	-20.24	Vertical	
ľ	12010.00	Anbore" * Ar	and the same of th	upotek Aup	74.00	otek Vupous	Vertical	
	14412.00	V Upo to	Aribo	HOKON.	74.00	and Man	Vertical	
	4804.00	34.92	15.27	50.19	74.00	-23.81	Horizontal	
	7206.00	42.75	18.09	60.84	74.00	-13.16	Horizontal	
	9608.00	28.34	23.76	52.10	74.00	-21.90	Horizontal	
Ī	12010.00	ology * Vupo	alk ho	iek Wipose.	74.00	k abolek	Horizontal	
	14412.00	" * " Proposition	Pun Pun	oder step	74.00	The motion	Horizontal	
	Average value:							
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization	
Ī	4804.00	17.27	23.76	41.03	54.00	-12.97	Vertical	
65000	7206.00	28.43	23.76	52.19	54.00	-1.81	Vertical	
	9608.00	19.47	23.76	43.23	54.00	-10.77	Vertical	
	12010.00	**************************************	Yupoje, Vu	agh.	54.00	by by	√ Vertical <sup>√√</sup>	
	14412.00	Week *	Apotel <sup>®</sup>	Wipo.	54.00	Pur	Vertical	
	4804.00	33.39	15.27	48.66	54.00	-5.34	Horizontal	
(05	7206.00	34.98	18.09	53.07	54.00	-0.93	Horizontal	
8	9608.00	17.85 No.	23.76	41.61	54.00	-12.39	Horizontal	
	12010.00	* 10%	otely Wipon	The soft	54.00	Vun.	Horizontal	
	14412.00	4 ×	colek ant	Voles Vues	54.00	Ole Vilgo	Horizontal	



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3k Wupo,	br.	A Piloofee	D'UP	-botell	Anbo	nel.
			ГМ1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4880.00	28.55	15.42	43.97	74.00	-30.03	Vertical
7320.00	42.49	18.02	60.51	74.00	-13.49	Vertical
9760.00	29.50	23.80	53.30	74.00	-20.70	Vertical
12200.00	ek * noonek	Anton	10010H	74.00	Vien	Vertical
14640.00	*	lek Wpose	Villa.	74.00	Moo	Vertical
4880.00	33.69	15.42	49.11	74.00	-24.89	Horizontal
7320.00	42.61	18.02	60.63	74.00	-13.37	Horizontal
9760.00	28.06	23.80	51.86	74.00	-22.14	Horizontal
12200.00	* of old	VUp Ole	Vien Siek	74.00	PUDO.	Horizontal
14640.00	*	anborek.	Wupa	74.00	Pupole.	Horizontal
verage value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	17.36	15.42	32.78	54.00	-21.22	Vertical Vertical
7320.00	34.64	18.02	52.66	54.00	-1.34	Vertical
9760.00	19.32	23.80	43.12	54.00	-10.88	Vertical
12200.00	W Anborra	N. Start	Anbore "	54.00	abolek.	Vertical
14640.00	olok * Anboli	W. W.	Ne colonia Ne	54.00	p., Lotels	Vertical
4880.00	31.80	15.42 15.42	47.22	54.00	-6.78	Horizontal
7320.00	34.96	18.02	52.98	54.00	-1.02	Horizontal
9760.00	18.15	23.80	41.95	54.00	12.05 prob	Horizontal
12200.00	W. Chapter	VU <sub>D</sub>	Spolek	54.00	"Olok "	Horizontal
14640.00	* ~ ~ ~ ~ ~	VUpor	Prince No.	54.00	PUDD.	Horizontal

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yes. Vue	A CALL	~4/p0	be.	POND.	Villa.	
			TM1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	28.68	15.58	44.26	74.00	-29.74	Vertical
7440.00	41.70	17.93	59.63	74.00	-14.37	Vertical
9920.00	30.20	23.83	54.03	74.00	-19.97	Vertical
12400.00	*	Vupcies	PUP.	74.00	Wupo.	Vertical
14880.00	* 1	iek vopolej	. Wypo.	74.00	Vupoya.	Vertical
4960.00	28.57	15.58	44.15 44	74.00	-29.85	Horizontal
7440.00	40.83	17.93	58.76	74.00	-15.24	Horizontal
9920.00	28.44	23.83	52.27	74.00	-21.73	Horizontal
12400.00	Week *	a doorell	PUPO.	74.00	Pupose Vus	Horizontal
14880.00	V. A. O. C.	POSSIF.	Wilpoye.	74.00	* Upolek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.48	15.58	34.06	54.00	-19.94	Vertical
7440.00	34.44	17.93	52.37	54.00	1.63 And	Vertical
9920.00	19.97	23.83	43.80	54.00	-10.20	Vertical Vertical
12400.00	* * Majorek	Vupo,	though	54.00	Villa.	Vertical
14880.00	* 160%	all Anboro	Villa Villa	54.00	Wulper - Sk	Vertical
4960.00	18.24	15.58	33.82	54.00	-20.18	Horizontal
7440.00	34.56	17.93	52.49	54.00	-1.51	Horizontal
9920.00	18.30	23.83	42.13	54.00	11.87	Horizontal
12400.00	**************************************	Anbore	Vi.	54.00	100 m	Horizontal
14880.00	*	"Upolesia	WUDD	54.00	Pupos b	Horizontal

#### Remark:

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







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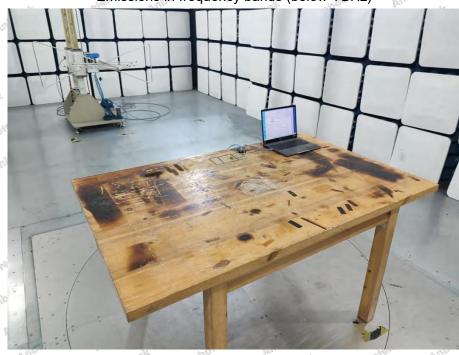
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### **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Conducted Emission at AC power line



Emissions in frequency bands (below 1GHz)



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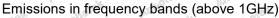
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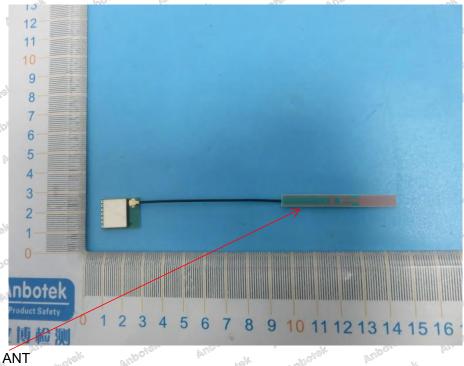
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### APPENDIX II -- EXTERNAL PHOTOGRAPH





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

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### **Appendix Test Data**

Report No.:	18220WC30186001	Test Sample No.:	1-2-2 Antonian Antonian
Start Test Date:	2023.08.31	Finish Test Date:	2023.09.08
Test Engineer:	Hayman Chen	Auditor:	RKCK hus
Temperature;	25.3℃	Relative Humidity:	48% mborek Ambore
Pressure:	102kPa	Anboran Anbor	ek Puposek Pupo

Appendix A: DTS Bandwidth

**Test Result** 

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
" Upoles	Villa	2402	0.676	2401.692	2402.368	0.5	PASS
BLE_1M	Ant1	2440	0.688	2439.680	2440.368	0.5	PASS
* Upo,	1000	2480	0.696	2479.672	2480.368	0.5	PASS

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## Test Graphs

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<u>Anborel</u>

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# Appendix B: Occupied Channel Bandwidth

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**Test Result** 

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	TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
ĺ	- tek	* "pose	2402	1.0327	2401.5107	2402.5434
,e	BLE_1M	Ant1	2440	1.0219	2439.5108	2440.5327
	- of	Mr Woon	2480	1.0334	2479.5079	2480.5413
	of Anto	-M- to	olok Wipo.	be.	DOLES VUID	-M 101016
	he Her	boyer bur	120,161	Anbo, Pr.	arek anbo	W. Wille





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Anloofek



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## Test Graphs

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#### Appendix C: Maximum conducted output power

Anbote

#### **Test Result Peak**

PUPC

'upotely	TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
-toote	And		2402	2.36	≤30	PASS
Villa	BLE_1M	Ant1	2440	2.14	≤30	PASS
Yo	Ole William	.V.	2480	1.62	≤30	PASS

Anbotek



Anbotek

Anborek

Vupo, sy

Anbotek



Anborok

Anhorek

Aupotak

Anboiek

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# Test Graphs Peak



Pupoke





P.Upose

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Aupotek

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anbotek

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*Vupoley* 

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#### Appendix D: Maximum power spectral density

Anbore

**Test Result** 

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Anbotak

	TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
	L CORE	Vupo.	2402	-7.95	≤8.00	PASS
N <sup>E</sup>	BLE_1M	Ant1	2440	-7.9	≤8.00	PASS
	- MONEY	William	2480	-8.12	~o <sup>no</sup> ≤8.00	PASS



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## **Test Graphs**

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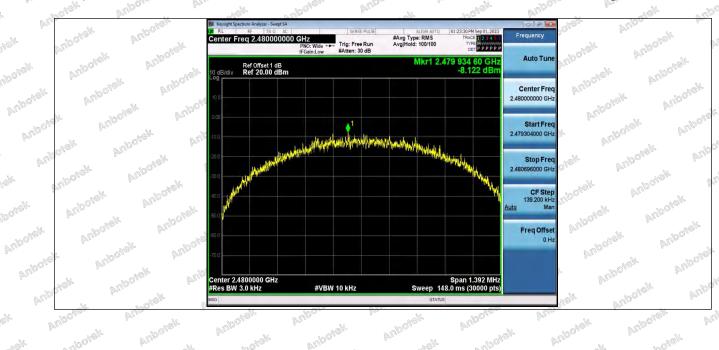
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# Appendix E: Band edge measurements

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200	Test Res	ult Anboiel	r Vupo <sub>t</sub> ,	an Anboick	Anbotek	Aupotek M.	Wupote <sub>k</sub>	"Upolek
,4/E	TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
	DIE 1M	ONE A net 1	‰ Low	2402	1.91 1.91 1.91 1.91 1.91 1.91 1.91 1.91	-52.88	≤-18.09	PASS
3/5	BLE_1M	Ant1	High	2480	0.33	-53.97	≤-19.67	PASS

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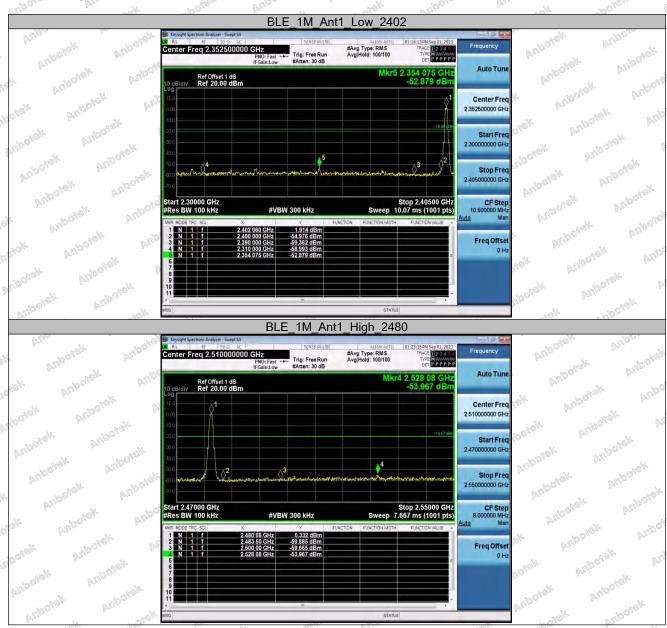
## Test Graphs

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## Appendix F: Conducted Spurious Emission

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**Test Result** 

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	W.Lo.		16-	No.	1-010 DIV		-01	
	TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
	12 50 N	Phy William	- W.	Reference	0.29	0.29	Wulpa	PASS
f <sub>(6)</sub>	AME	- 14-	2402	30~1000	0.29	-58.09	≤-19.71	PASS
	No. No.	o <sub>fer</sub>	W. C.	1000~26500	0.29	-49.58	≤-19.71	PASS
%	0.00 B71.	40-	"POLOLO WILL	Reference	0.80 May	0.80	r "po <sub>f@r.</sub>	PAS\$
	BLE_1M	Ant1	2440	30~1000	0.80	-58.74	≤-19.2	PASS
8	npo.	of Ok	anbore	1000~26500	0.80	-52.28		PASS
	Moles II	PUDO.	he.	Reference	0.03	0.03		PASS
	WU.P.	10/10/	2480	30~1000	0.03	-58.9	≤-19.97	PASS
	"pote"	PULL	48%	1000~26500	0.03	-52.91	≤-19.97	PASS

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## **Test Graphs**

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

Hotline

400-003-0500

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Anboisk

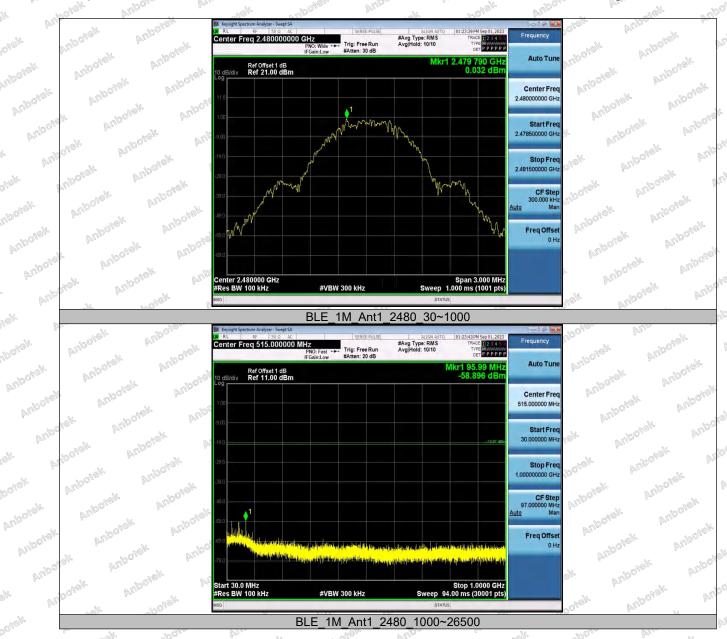
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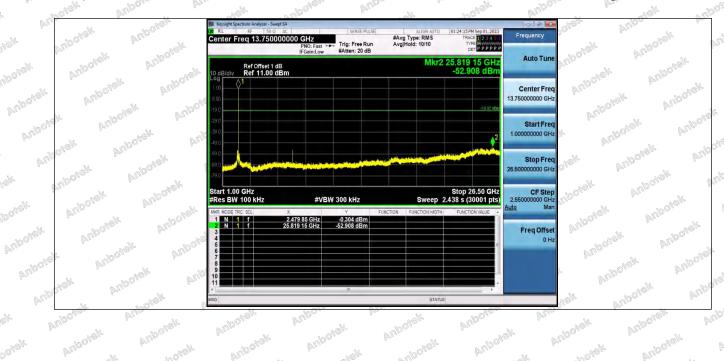
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**Appendix G: Duty Cycle** 

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	Test Resu	ilt Anbol <sup>ok</sup>	Anboheli Anbo	otok Anbot	ofelt and	pojek Anjoo	ek Aupotek
0	TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
	/r 100/ <sub>60</sub>	P.U.D.	2402	19.00	19.00	100	And I
100	BLE_1M	Ant1	2440	19.00	19.00	100	boken 1 August
	do Her	Ville Ville	2480	19.00	19.00	100	Der 1

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## Test Graphs

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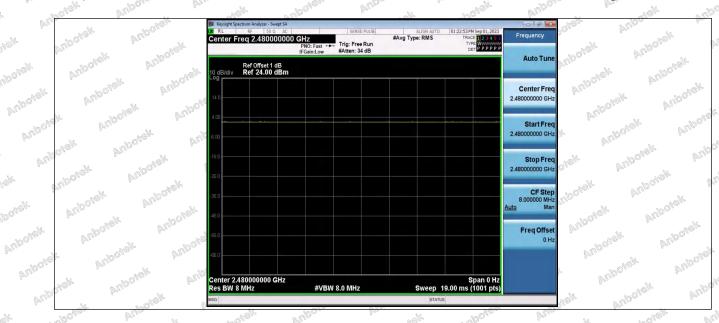
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End of Report -

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