

Report No.:1812C40065512502

FCC ID: GV3M01709-M

# FCC Test Report

Applicant : ACCO Brands USA LLC

Address 4 Corporate Drive, Lake Zurich, Illinois 60047,

USA

Product Name : MY230 EQ Rechargeable Mouse

Report Date : Oct. 28, 2024

Shenzhen Anbotek



Anbotek

Laboratory Limited







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## Report No.:1812C40065512502 Anbotek FCC ID: GV3M01709-M

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## TEST REPORT

ACCO Brands USA LLC Applicant

ACCO Brands USA LLC **Manufacturer** 

**Product Name** MY230 EQ Rechargeable Mouse

M01709-M Model No.

Trade Mark Kensington

Rating(s) Input: 5V-300mA (with DC 3.7V, 500mAh battery inside)

47 CFR Part 15.247 Test Standard(s) 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.	Sept. 03, 2024
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Date of Test:	Sept. 03, 2024 to Sept. 19, 2024
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Prepared By:	Top Top Wooten Aupon W. Wotek
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# Revision History

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## 1. General Information

## 1.1. Client Information

Applicant	:	ACCO Brands USA LLC
Address	:	4 Corporate Drive, Lake Zurich, Illinois 60047, USA
Manufacturer	:	ACCO Brands USA LLC
Address	:	4 Corporate Drive, Lake Zurich, Illinois 60047, USA

## 1.2. Description of Device (EUT)

. 010	D.,	16 NO. NO.
Product Name	:	MY230 EQ Rechargeable Mouse
Model No.	:	M01709-M
Trade Mark	:	Kensington And Andrew Andrew Andrew
Test Power Supply	:	DC 5V from adapter input AC 120V/60Hz; DC 3.7V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A tek Anbotek Anbo tek Motek Anbote An
RF Specification		
Operation Frequency		2403-2480MHz
Number of Channel	:	16 Anbotek Anbotek Anbotek Anbotek Anbo
Modulation Type	:	GFSK Anborek Anborek Anborek Anborek
Antenna Type		PCB Antenna Model Andolek Andolek Andolek
Antenna Gain(Peak)	:	2.30dBi

#### 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

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

## 1.4. Operation channel list

#### Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0 4/10	01e 2403 Ant	otek 4 A	2424	Napo 18k	2445	12 rek	2465
1	2409	Anborek	2429	90tek	2450	13	2470
Anbole 2	2414	Anl6 rek	2435	10 nbotel	2455 bold	14	ote* 2475 And
Vup 3	2419	Zabolek	2441	, 11 , nb	o <sup>tek</sup> 2461 Anbi	15	2480

## 1.5. Description of Test Modes

Pro	etest Modes		Descriptions	
polek	TM1	Anbol	Keep the EUT in continuously transmitting mode with GFSK modulation (non-hopping).	Anb
Aupole Siek	TM2	P,	Keep the EUT in continuously transmitting mode with GFSK modulation (hopping).	

## 1.6. Measurement Uncertainty

Parameter	Uncertainty				
Conducted emissions (AMN 150kHz~30MHz)	3.4dBek Anbotek Anbotek				
Occupied Bandwidth	925Hz. otek Anboutek Anbout				
Conducted Output Power	0.76dB nootek And tek Andotek Ar				
Conducted Spurious Emission	1.24dB Anborek Anberger				
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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# Anbolek 1.7. Test Summary

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Test Items	Test Modes	Status
Antenna requirement	Augore / Am	Rnb
Conducted Emission at AC power line	Mode1	» Р
Occupied Bandwidth	Mode1	potek P
Maximum Conducted Output Power	Mode1	°/o/₽
Channel Separation	Mode2	Pre
Number of Hopping Frequencies	Mode2	Р
Dwell Time And	Mode2 Antonio	P
Emissions in non-restricted frequency bands	Mode1,2	Р
Band edge emissions (Radiated)	Mode1	ipore B
Emissions in frequency bands (below 1GHz)	Mode1	Anbole P
Emissions in frequency bands (above 1GHz)	Mode1 Model	₽ <b>P</b> °

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.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, 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

Aupolek	Cond	ucted Emission at A	C power line	Allotek	Auporen	K Vipa	Aupolek
Anbo	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
P	nbolek	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
ipotek	Anbo	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
Aupolek	3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A orek	Pkpolo Ofek	Aupotek
Anb	o <sup>tek</sup> 4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

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**Channel Separation** 

Number of Hopping Frequencies

**Dwell Time** 

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Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
AUA016h	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	ootek N/A	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	102150	2024-05-06	2025-05-05
4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
500	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6 <sub>Anl</sub>	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03



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Ann	otek Aupotek	Vupo,	upotek A	nbote	V. Potek	Anborer A
	edge emissions (Ra sions in frequency ba		Aupolek	Aupole	Vupofek	Aupolek
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
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	Alpotek	Vupor Votek
) te 5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
Anb6rek	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
Kupa	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

otek	Emio	niono is fraguanali be	anda (halaw 1CHz)	Vup.	Aupolek	Aupo.	Vuporek.
Anbore	Item	sions in frequency ba Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
An	1,	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
	Anber	Pre-amplifier	SONOMA	310N N	186860	2024-01-17	2025-01-16
9K	3 <sup>A,nb</sup>	Bilog Broadband Antenna	Schwarzbeck	VULB9163	10 345 K	2022-10-23	2025-10-22
bole	4	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
Vupo,	5	EMI Test Software EZ-EMC	SHURPLE	N/A <sup>botes</sup>	N/A	otek / Anbote	k / Anbo
V,	Anbore	k Auporen	And Anborek Anbo	ick Vupo	polek	Anbotek An	oole Am

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## 2. Antenna requirement

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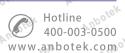
Test Requirement:

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 shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be 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 2.30dBi. It complies with the standard requirement.

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## 3. Conducted Emission at AC power line

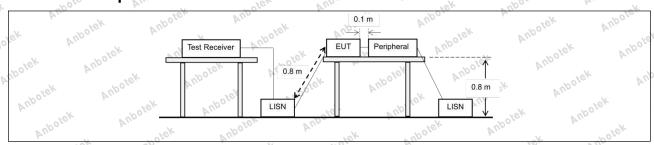
Otek Vupotek	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator to public utility (AC) power line, the radiator to public utility (AC) power line, the radiator to the	that is designed to be con adio frequency voltage tha	nected to the		
Test Requirement:	back onto the AC power line 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		
Vupo	Frequency of emission (MHz)	Conducted limit (dBµV)	ek abolek		
k Aupole, Aug	The spoker Ande	Quasi-peak	Average		
- dek	0.15-0.5	66 to 56*	56 to 46*		
Test Limit:	0.5-5 K	.56 h	46		
ick upolek	5-30 hotek And	60	50		
Anbor K A. Lotek	*Decreases with the logarithm of the frequency.				
Test Method:	ANSI C63.10-2020 section 6.2	polek Aupore	V. Olek		
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-		

# 3.1. EUT Operation

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Operating Envi	ronment:	Aupolek	VUP	, tek	" upolek	Aupor	polek	Anb
Test mode:		on-Hopping) on (non-hop		he EUT in	continuously	y transmitting	mode with GF	SK
3.2. Test Set	up spotek	Aupole	V.	Vin	Anborek	And	rek vupo	lek

## 3.2. Test Setup





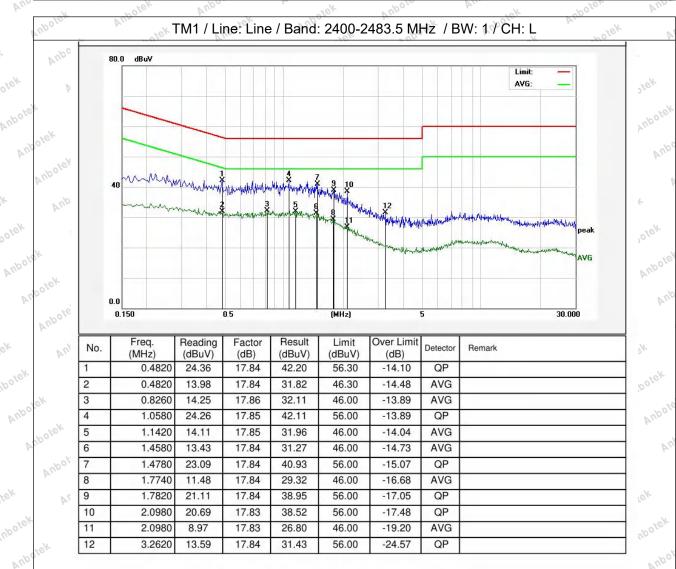




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#### 3.3. Test Data

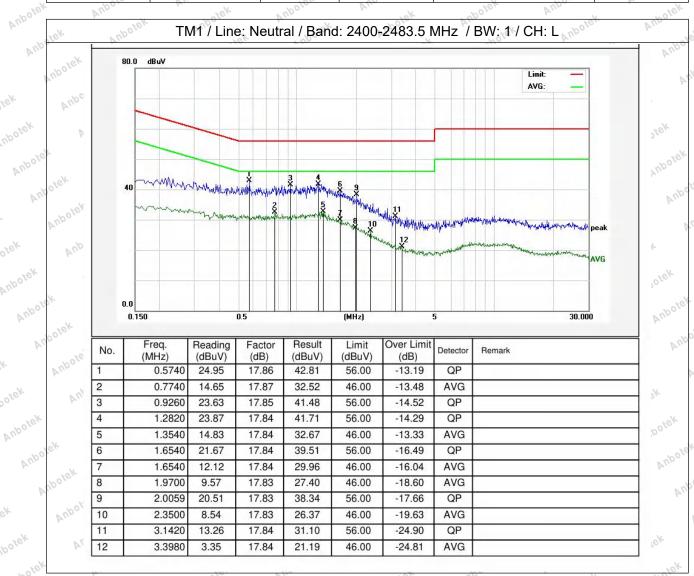
Temperature: 22.6 °C Humidity: 48 % Atmospheric Pressure: 101 kPa







Temperature: 22.6 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note: Only the worst case data was showed in the report.







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# 4. Occupied Bandwidth

N.	PIOLO VIII	Total And tak upo k
	Test Requirement:	47 CFR 15.247(a)(1)
8	Test Limit: Anborek Anborek Anborek Anborek	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
e l	Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test.
	Anbotek Anbotek Anbotek Anbotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power 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
7.6	k Anbotek An	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 at least three times the RBW, unless
7	Anbotek Anbotek	otherwise specified by the 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
1	Vypotek Vypo	(OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the
0)	Procedure:	specified range. e) Video averaging is not permitted. Where practical, a sample detection and single averaging shall be used. Otherwise, peak detection and may hold
1	Aupotek Aupotek	single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.  f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
X-	Aupolek Aupo	g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms.
00	tek Auporg b	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
P	upotek Aupotek	total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
	Aupotek Aupotes	h) The occupied bandwidth shall be reported by providing spectral 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
e	. Aupore And	the plot(s).

## 4.1. EUT Operation

Operating En	vironment:	Anboro	V. Olek	Aupolen	Aun Vek
Test mode:	1: TX (Non-Hoppi	ng): Keep the EUT	in continuously	transmitting	mode with GFSK
restinioue.	modulation (non-h	nopping).	" "pole"	And	-k holek









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Report No.:1812C40065512502 FCC ID: GV3M01709-M

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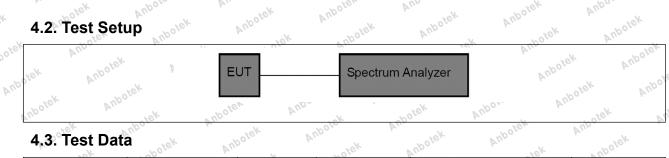
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## 4.2. Test Setup



#### 4.3. Test Data

4.3. Test Dat	a abolek	Aupotek I	Aupole	Aupotek.	Aupoler.	Anotok
Temperature:	22.1 °C	Humidity:	48 %	Atmosph	eric Pressure:	101 kPa

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Please Refer to Appendix for Details.

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FCC ID: GV3M01709-M

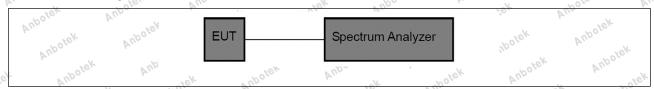
## 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5
otek Vupotek	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer
Aupotek Aupotek	settings: a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW.
ek Anboren An	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Procedure:	f) Trace: Max-hold. g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission.
Aupotek Aupo	<ul> <li>i) The indicated level is the peak output power, after any corrections for external attenuators and cables.</li> <li>j) A spectral plot of the test results and setup description shall be included in</li> </ul>
opotek Vupotek V	the test report.  NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum
Aupotek Aupo	analyzer, tek Anbore Anbore Anbore Anbore

## 5.1. EUT Operation

				740.	V //	. 6/6	~ (0 ~
¥.	Operating Envir	onment:	* upotek	Vupo.	Potek	Anbore	VIII
	Test mode:	1: TX (Non-Hopp	oing): Keep the	EUT in conti	nuously transmit	ting mode with	GFSK
00	viest mode.	modulation (non	-hopping).	rek	Anboro	W.	yodn.

## 5.2. Test Setup



#### 5.3. Test Data

Temperature:	22.1 °C	Humidity: 4	18 %	Atmospheric Pressure:	101 kPa	Pr.
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Please Refer to Appendix for Details.





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Report No.:1812C40065512502 FCC ID: GV3M01709-M

# 6. Channel Separation

K 700, L	The state of the s
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2
Aupotek Aupotek  Aupotek Aupotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:  a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
Procedure:	c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time.
Anbotek Anbotek	e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
Nek Wupotek Wupot Wupotek Wupotek Wupot	Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

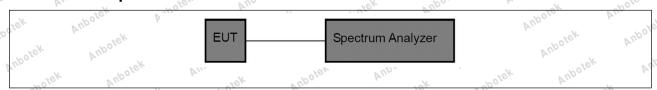
# 6.1. EUT Operation

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P.º	Operating Envi	onment:	Vupp of Ch	Vupolek	Aupor	Ar. Spotek	Aupoier	Vu,
	Test mode:		oping): Keep n (hopping).	the EUT in co	ontinuously trar	nsmitting mode	with GFSK	e/F

## 6.2. Test Setup



## 6.3. Test Data

2)	Temperature:	22.1 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	0

Please Refer to Appendix for Details.





## 7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3
Anbotek Anbotek  Anbotek Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:  a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.  b) RBW: To identify clearly the individual channels, set the RBW to less than
Procedure:	30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW.
Aupotek Aupotek	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
ovek Aupotek Aupot	It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

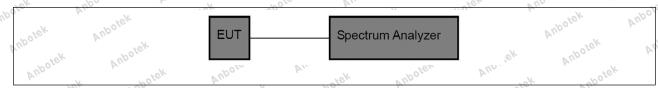
## 7.1. EUT Operation

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Operating Envi	ronment:	Aupole	Vun Jiek	Auporek	Vupo. "Gk	abotek
Test mode:	107	. OV .	ne EUT in cont	inuously trans	mitting mode w	ith GFSK
FOR	modulation	ո (hopping).	100%	b.	, ole	VUS

## 7.2. Test Setup



#### 7.3. Test Data

(0)	Temperature:	22.1 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.







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## 8. Dwell Time

K poter And	Total Mupo, W. Tak Majore, My
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4
Aupotek Aupotek  Aupotek Aupotek  Aupotek Aupotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device ha a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.
Dorek Auporek Au	The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.
ek Anbotek Anbot	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different
Procedure: Anbotek	dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.
Anbore Anbo	Use the following spectrum analyzer settings to determine the dwell time pe hop:
rek Aupotek	<ul> <li>a) Span: Zero span, centered on a hopping channel.</li> <li>b) RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected transmission time per hop.</li> </ul>
Aupotek Aupotek	c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this.
Otek Aupotek Aup	d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
Aupotek Aupotek	<ul><li>e) Detector function: Peak.</li><li>f) Trace: Clear-write, single sweep.</li><li>g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between</li></ul>





these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is  $3 / 0.5 \times 10$ , or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

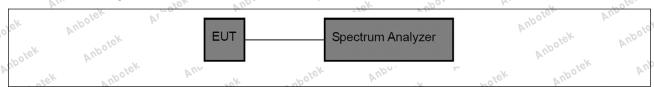
### 8.1. EUT Operation

Operating Environment:

Test mode:

2: TX (Hopping): Keep the EUT in continuously transmitting mode with GFSK modulation (hopping).

#### 8.2. Test Setup



#### 8.3. Test Data

V.	Temperature:	22.1 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	

Please Refer to Appendix for Details.



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9. Emissions in non-restricted frequency bands

Aupole Air	non-restricted frequency bands
Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	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 7.8.7
Anbotek Anbotek  Anbotek Anbotek	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.  Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
Procedure:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.  When conducted measurements cannot be made (for example a device with
Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth







300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

## 7.8.7.2 Band-edges

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

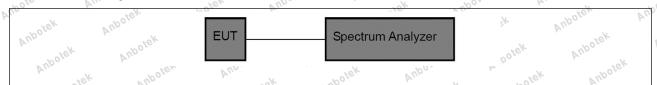
## 9.1. EUT Operation

#### Operating Environment:

Test mode:

- 1: TX (Non-Hopping): Keep the EUT in continuously transmitting mode with GFSK modulation (non-hopping).
- 2: TX (Hopping): Keep the EUT in continuously transmitting mode with GFSK modulation (hopping).

#### 9.2. Test Setup



#### 9.3. Test Data

Temperature: 22.1 °C Humidity: 48 % Atmospheric Pressure: 101 kPa
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Please Refer to Appendix for Details.







## 10. Band edge emissions (Radiated)

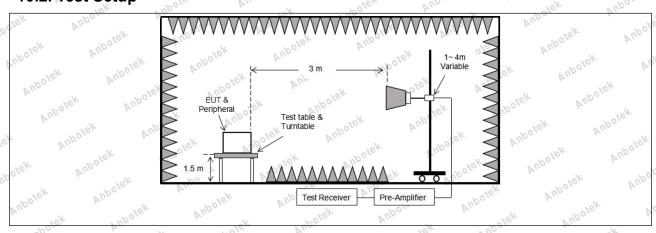
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`					
Anborek Anborek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
anboiek Anbo	0.009-0.490	2400/F(kHz)	300 And			
H. Viek Vup	0.490-1.705	24000/F(kHz)	(30 huporg			
Anbo	1.705-30.0	30 Holek Aug	30			
*ek "upolek	30-88	100 **	31ek And			
Por Viek	88-216	150 **	1,3 Work Bullet			
abolek Anbo	216-960 Above 960	200 ** 500	3 100			
Test Limit: Anbore Anborek Anborek Anborek Anborek Anborek Anborek Anborek	** Except as provided in particular 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-page kHz, 110–490 kHz and a	ragraph (g), fundamental emissing under this section shall not bz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt § 15.231 and 15.241.  If the tighter limit applies at the bin the above table are based on beak detector except for the frequency 1000 MHz. Radiated emisted on measurements employing	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	6.10 And	iek upolek			
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Note by			

## 10.1. EUT Operation

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Operating Env	ironment:	oolek Aup	ote. b	"II.	Aupoles	Vup.
Test mode:	1: TX (Non-Hop modulation (nor	. 000	e EUT in co	ontinuously t	ransmitting m	ode with GFSK

## 10.2. Test Setup



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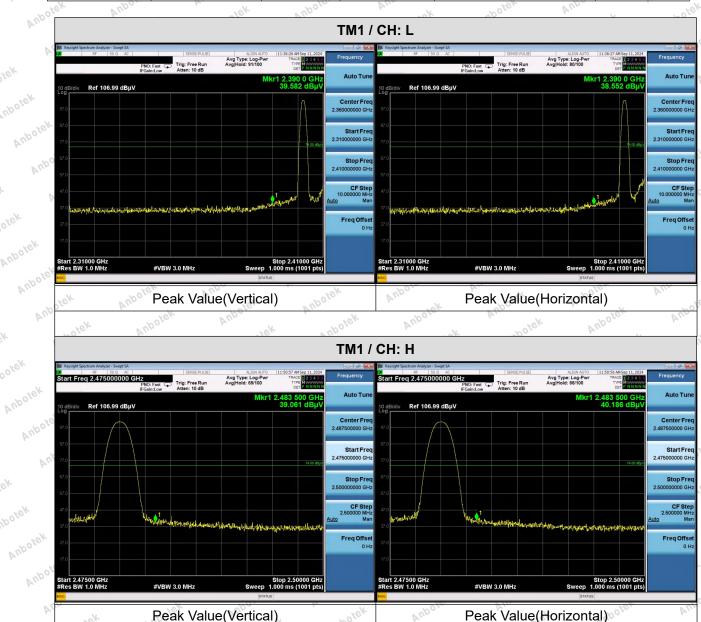


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### 10.3. Test Data

Temperature: 22.1 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note: 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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Report No.:1812C40065512502 FCC ID: GV3M01709-M

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

Aupo esk	Refer to 47 CFR 15.247(d)	, In addition, radiated emissions	which fall in the
Test Requirement:		d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	
Aupotek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anbotek Anbo	0.009-0.490	2400/F(kHz)	300
W. Stek Vup	0.490-1.705	24000/F(kHz)	30 NOOL
Anbo	1.705-30.0	30 K Poley Vup.	30
rek spolek	30-88	100 **	31er And
ole, VII.	88-216	150 ** Andrew	"3 tok
rotek Vupore	216-960	200 **	3 nbor
Test Limit:	Above 960	500	3 Spotek
Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	intentional radiators operat frequency bands 54-72 MH However, operation within to 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 emissing under this section shall not be lz, 76-88 MHz, 174-216 MHz or these frequency bands is permit § 15.231 and 15.241. In the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. ted under other pand edges. measurements uency bands 9–ssion limits in
Test Method:	dy Age	664 Anbore	All.
Lek V	ANSI C63.10-2020 section	700 P.	otek Aupore
Procedure:	ANSI C63.10-2020 section	6.6.4	w. wo
11.1. EUT Operation	n hotek Anbotek	Aupo, Kek Vupotek	Anbore. All

# 11.1. EUT Operation

Operating Envi	ironment:	ek Anbore	VI.	Aupolen	Aug
Test mode:	1: TX (Non-Hoppi modulation (non-h	£40. F///	T in continuously	transmitting n	node with GFSK





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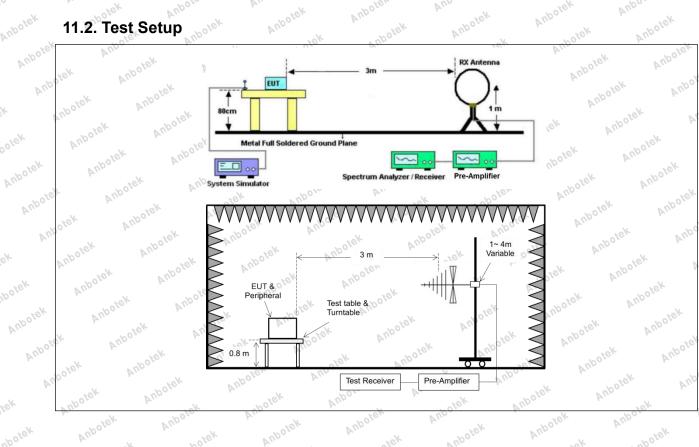
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## 11.2. Test Setup

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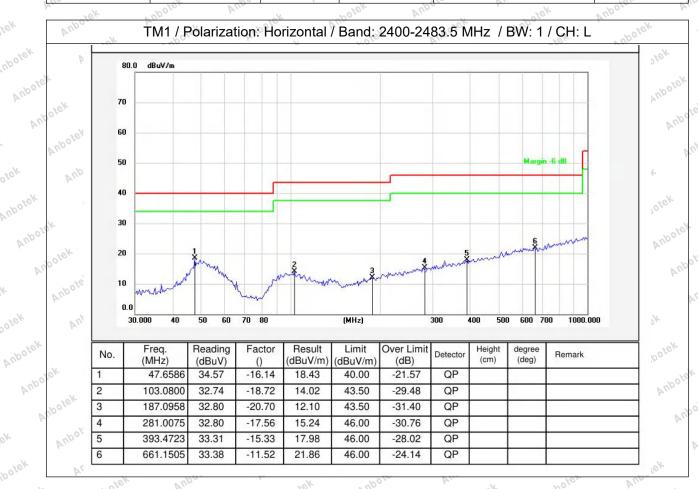
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#### 11.3. Test Data

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: 22.1 °C Humidity: 48 % Atmospheric Pressure:	101 kPa	4-
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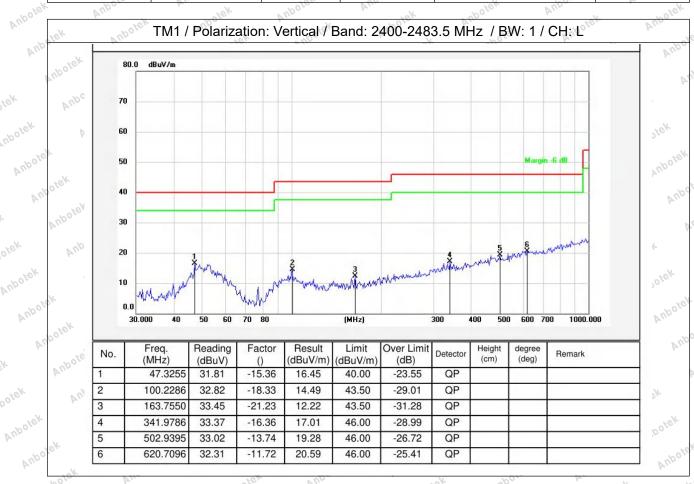
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Report No.:1812C40065512502 FCC ID: GV3M01709-M

Anbolek Temperature: 22.1 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note: Only the worst case data was showed in the report.







FCC ID: GV3M01709-M

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

Test Requirement:		ons which fall in the restricted background $S(c)$ .	
Aupotek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Anboren And	0.009-0.490 0.490-1.705	2400/F(kHz)	300
r Vupolek Vup	1.705-30.0	24000/F(kHz) 30	30
ek abotek	30-88	100 **	31ck Ande
pore A. Potek	88-216 216-960	150 ** 200 **	3 nbotek
Aupoles Aug Siek	Above 960	500 Andrew Andrew	3
Test Limit:  And Limit:  And Otek  And Otek  And Otek  And Otek  And Otek  And Otek  And Otek	intentional radiators operatifrequency 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-p90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissing under this section shall not bz, 76-88 MHz, 174-216 MHz or these frequency bands is permitted in the tighter limit applies at the bin the above table are based on the detector except for the frequency 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. Led under other pand edges. In measurements uency bands 9—ssion limits in
Test Method:	ANSI C63.10-2020 section	6.6.4 Andorek Andore	Vun
Procedure:	ANSI C63.10-2020 section	Apolo Air	2010 1 VUR

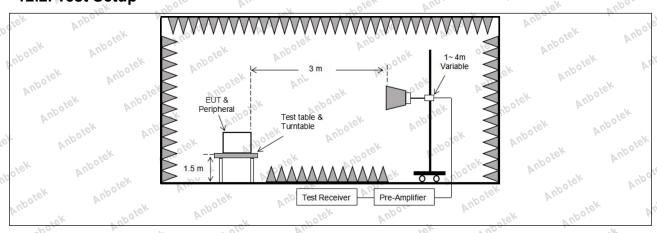
## 12.1. EUT Operation

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12.1. EU NOP	peration	"upotek	And	polek	Aupor	W. Olek	ant
Operating Envi	ronment:	Polek	Aupolo	VII.	Anboiek	Aug.	
Test mode:	VA.	n-Hopping): n (non-hopp	6.777	in continuously	transmitting	mode with GFSK	T .

## 12.2. Test Setup





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## 12.3. Test Data

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12.3. Test Data	Aupolek 16k	Aupo, upolek	Anbotek Anb	otek	Anbotek
Temperature: 22.1 °C	Humidity:	48 %	Atmospheric Pre	ssure:	101 kPa

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ek Anb	Ofe.	Aug 16k	abotek	Vupo	4 abolek	Aupol	P.,
· · ·		A 5-	-	ГМ1 / CH: L			V 10V
Peak value	:						
Frequence (MHz)	су	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4806.00	)-	27.97	15.27	43.24	74.00	-30.76	Vertical
7209.00	10k	29.17	18.09	47.26	74.00	-26.74	Vertical
9612.00		30.12	23.76	53.88	74.00	-20.13	Vertical
12015.0	O'upola	* *	ick anbo	ier Aup	74.00	olek Vupo	Vertical
14418.0	0 000	iek * Yup		botek An	74.00	· otek	Vertical N
4806.00	)	28.36	15.27	43.63	74.00	-30.37	Horizontal
7209.00	) A	29.07	18.09	47.16	74.00	-26.84	Horizontal
9612.00	) <sup>N</sup>	28.71	23.76	52.47	74.00	-21.53	Horizontal
12015.0	Orek	*hbole	VIII	Aupolek	74.00	k abolek	Horizontal
14418.0	Ö ,	* Anbole	k Aupo	1000	74.00	<i>b</i> .	Horizontal
Average va	ilue:						
Frequen (MHz)	СУ	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4806.00	)ek	17.35	15.27	32.62	54.00	-21.38	Vertical
7209.00	199	18.20	18.09	36.29	54.00	-17.71	Vertical
9612.00	Vpo.	19.14	23.76	42.90	54.00 No	-11.11 <sup>n/0</sup>	Vertical
12015.0	O Vupoje	* And	184 201	Josek Vup.	54.00	potek Aut	Vertical
14418.0	0 0	olek * VL	100, 1	Polek	54.00	rek	Vertical
4806.00	)	16.71	15.27	31.98	54.00	-22.02	Horizontal
7209.00	)	18.13	18.09	36.22	54.00	-17.78	Horizontal
9612.00 12015.0	lick	18.02	23.76	41.78	54.00	-12.22	Horizontal
12015.0	191000	* Aupolek	Yu.	k upole	54.00	2000	Horizontal
14418.0	0,000	* * %	ick Vupor	-K ~	54.00 M	V.	Horizontal

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	Aupotek V	-	TM1 / CH: M	- 02	A11"	Anbotek
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	27.99 And	15.42	43.41	010 And	-30.59	Vertical
7323.00	29.02	18.02	47.04	74.00	-26.96	Vertical
9764.00	29.13	23.80	52.93	74.00	-21.08	Vertical
12205.00	Aupole .	Vun	Aupolek.	74.00	upolek.	Vertical
14646.00	+ *bolek	Vupore.	Polek	74.00	All.	Vertical
4882.00	28.06	15.42	43.48	74.00	-30.52	Horizontal
7323.00	29.06	18.02	47.08	74.00	-26.92 M	Horizontal
9764.00	28.41 And	23.80	52.21	74.00	-21.79	Horizontal
12205.00	"olek*	Aupole. b	Les.	74.00	Aupo	Horizontal
14646.00	Vue *	abotek	Aupore	74.00	Anborok	Horizontal
Average value	<b>9</b> :					
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.08	otek 15.42 knb	32.50	54.00	-21.50	Vertical
7323.00	18.30	18.02	36.32	54.00	-17.68	Vertical
9764.00	19.00	23.80	42.80	54.00	-11,21	Vertical
12205.00	*Josek	Aupore	W. Otek	54.00	Vur.	Vertical
14646.00	Au.*	Anbolek	Anbo	54.00	Vupore.	Vertical
4882.00	16.62	15.42	32.04	54.00	-21.96	Horizontal
7323.00	17.69 habo	18.02	35.71 NA	54.00	-18.29	Horizontal
9764.00	18.53	23.80	42.33	54.00 N	-11.67	Horizontal
12205.00	VUD *	polek	Aupor	54.00	Aupolek	Horizontal
14646.00	Auporo.*	VI.	Anbotek	54.00	abotek	Horizontal

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"otek	Aupo	19K	anbore	YII.	poler	AUD
		•	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	28.26	15.58 Anbox	43.84	74.00 M	-30.16	Vertical
7440.00	29.03	17.93	46.96	74.00	-27.04	Vertical
9920.00	29.68	23.83	53.51	74.00	-20.50	Vertical
12400.00	abotek	Anbore	"otek	74.00	Vier	Vertical
14880.00	* 016K	Aupotek	Aug	74.00	Anboro	Vertical
4960.00	28.13	15.58	43.71	74.00	-30.29	Horizontal
7440.00	29.09	17.93	47.02 mon	74.00	-26.98	Horizontal
9920.00	29.09	23.83 And	52.92	74.00 And	-21.08	Horizontal
12400.00	*	abolek A	1/por	74.00	Aupole. A	Horizontal
14880.00	Anbore *	wolek.	Vupolek.	74.00	* upotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.20	15.58	33.78	54.00	otek-20.22 knb	Vertical
7440.00	19.31 An	17.93	37.24	54.00	-16.76	Vertical
9920.00	19.55	23.83	43.38	54.00	-10.63	Vertical
12400.00	Vun *	nbotek	Vupo.	54.00	Anbole	Vertical
14880.00	VUA.	"Polek	Aupole	54.00	Aupolek	Vertical
4960.00	18.06	15.58	33.64	54.00	-20.36	Horizontal
7440.00	19.06 00	17.93 no	36.99	54.00 kg/00	-17.01	Horizontal
9920.00	18.43	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	42.26	54.00	10010 -11.74 AM	Horizontal
12400.00	upole * A	in tok	upotek	54.00	polek	Horizontal
14880.00	10/0/A	Aupo	Viek.	54.00	VIII	Horizontal

#### Remark:

- 1. Result =Reading + Factor
- 2. Test frequency are from 1GHz to 25GHz, "\*" 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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Report No.:1812C40065512502 FCC ID: GV3M01709-M

## APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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#### 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

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