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# **FCC Test Report**

Shenzhen Moldull Acoustic Technology Co., Ltd. **Applicant** 

403 Huiyi Wealth Center No.9, Zhongxin Road,

Dalang, Longhua New Area, Shenzhen City, Address

**Guangdong Province, China** 

**Product Name Smart Watch** 

: Oct. 19, 2023 **Report Date** 

Shenzhen Anbotek Compiliance Laboratory Limited







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# TEST REPORT

Shenzhen Moldull Acoustic Technology Co., Ltd. Applicant

Manufacturer Shenzhen Moldull Acoustic Technology Co.,Ltd.

**Product Name Smart Watch** 

MC008 Test Model No.

Reference Model No. **MT65** 

Trade Mark N/A

Input: 5V-200mA( with DC 3.8V, 280mAh battery inside) Rating(s)

47 CFR Part 15.247 Test Standard(s)

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. 21, 2023
Anbotek Anbote Anbotek Anbotek Anbotek	
Date of Test: Sept	21, 2023 to Oct. 12, 2023
Anbotek Anbotek Anbotek Anbotek Anb	or Allong Anbotes Anb
ak Anborek Anborek Anborek Anborek	Tu Tu Hong
Prepared By:	An Anbotek Anbo
	(TuTu Hong)
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	dward pan
Approved & Authorized Signer:	spotek Aupo, K witek Aupot
k Anbotek Anbotek Anbot A	(Edward Pan)



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# **Revision History**

	Report Version	Description	Issued Date
	Anbore R00 potek Ant	Original Issue.	Oct. 19, 2023
9)	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb
70	or Anbotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anboter





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### 1. General Information

### 1.1. Client Information

6.77.		
Applicant	:	Shenzhen Moldull Acoustic Technology Co.,Ltd.
Address	:	403 Huiyi Wealth Center No.9, Zhongxin Road, Dalang, Longhua New Area, Shenzhen City, Guangdong Province, China
Manufactu	ırer :	Shenzhen Moldull Acoustic Technology Co.,Ltd.
Address	:	403 Huiyi Wealth Center No.9, Zhongxin Road, Dalang, Longhua New Area, Shenzhen City, Guangdong Province, China
Factory	:	Shenzhen Moldull Acoustic Technology Co.,Ltd.
Address	:	403 Huiyi Wealth Center No.9, Zhongxin Road, Dalang, Longhua New Area, Shenzhen City, Guangdong Province, China

# 1.2. Description of Device (EUT)

Product Name	:	Smart Watch
Test Model No.	:	MC008
Reference Model No.	:	MT65 (Note: All samples are the same except the model number & appearance color, so we prepare "MC008" for test only.)
Trade Mark	:	N/A Anborek Anborek Anborek Anborek Anborek Anborek
Test Power Supply	:	AC 120V/60Hz for Adapter/DC 3.8V Battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A stek Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	579 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	Monopole antenna
Antenna Gain(Peak)		-1.31 dBi Anborek Anborek Anborek Anborek Anborek

#### 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	





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### 1.4. Operation channel list

-h070 -							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
VO OLO	2402	20	2422	40 botek	2442	60	2462
· 1 <sub>Anbote</sub>	2403	× 21 00	2423	41	2443	61	2463
tek 2 Anb	2404	22	otek 2424 Mbo	42	2444	62 Ant	2464
Nek3	2405	23	2425	43	2445	1001e 63	2465
4	2406	<sup>nbo</sup> 24	2426	Anbold 44	2446	64	2466
Anbos	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46 o le le	2448	66	2468
Zuporg	2409	27, no ote	2429	47 <sub>00</sub> 0	2449	67	2469,000
ek 8 Anbc	2410	, 28 , no	2430	48	ote 2450 And	68	2470
notek 9 A	2411 Ann	29	2431	49	2451	10016 69	2471
10	2412	30	2432	Anbotto	2452	Anb 70	2472
11,ex	2413	Anbana 31	2433	51	2453	7.11°	2473
12	2414	32	2434	52°	2454	72 010 K	2474
13	2415	33 <sup>1</sup>	2435	× 53 <sub>nn</sub> bote	2455	73	2475
14 Anbo	2416	rek 34 Anb	2436	sex 54	2456 Andrew	74	ote 2476 Anto
otek 15 Ar	2417		2437	55	2457	75	2477
16	2418	36	2438	56	2458	м <sup>ро</sup> 76	2478
17	2419	37	2439	An 57	2459	A.77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59, nbote	2461	ek - nobot	ek _ Anbor

# 1.5. Description of Test Modes

Pretest Modes		Descriptions				
Andotek TM10tek Ando		Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.				
TM2 TM2	zotek Ar	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.				
TM3	<i>upotek</i>	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.				
TM4	Anborek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.				
TM5	Anbot	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.				
TM6	ak Anh	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.				





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### 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB And Andorek Andorek
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

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



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### 1.7. Test Summary

abotek / Anbote	P
	0
Mode1,2,3	PART
Mode1,2,3	P
Mode1,2,3	nbott P.
Mode4,5,6	Wapou
Mode4,5,6	AP O
Mode4,5,6	Panbo
Mode1,2,3,4,5,6	PAR
Mode1,2,3	ipose P
Mode1,2,3	Anboye
Mode1,2,3	ATP.
	Mode1,2,3 Mode4,5,6 Mode4,5,6 Mode4,5,6 Mode1,2,3,4,5,6 Mode1,2,3 Mode1,2,3





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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	Anbe	k aborel	Anbore	Ar.
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 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek /Anbotek	Anborotek

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

**Dwell Time** 

Emissions in non-restricted frequency bands

Item	m Equipment Manufacturer		Model No.	Serial No.	Last Cal.	Cal.Due Date
1	MXG RF Vector Signal Generator	Agilent	N5182A	MY481806 56	2023-10-12	2024-10-11
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
Anbox 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 ba		Anbotek	Auporen	Anusabotek	Aupolek Vup,
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Anbot 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	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
×°4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupolek L	abotek A
no5 <sup>tek</sup>	Horn Antenna	Anborek A-INFO	LB-180400- KF	J21106062 8	2022-10-23	2023-10-22
16/00	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7 A	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24







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Emis	sions in frequency ba	ands (below 1GHz)	Anbore	Vun Potek	Anborek	Vupo, Vek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
nb4 <sup>ek</sup>	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anboter	Andorsk





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### 2. Antenna requirement

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 Monopole antenna which permanently attached, and the best case gain of the antenna is **-1.31 dBi**. It complies with the standard requirement.





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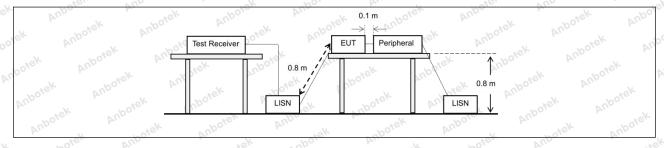
# 3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the result back onto the AC power line on are band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage tha ny frequency or frequencie t exceed the limits in the fo	nected to the at is conducted as, within the ollowing table, as		
spoick Aupon	Frequency of emission (MHz)	Conducted limit (dBµV)			
YII.	Anbore Anbore	Quasi-peak	Average		
Aupor Air	0.15-0.5	66 to 56*	56 to 46*		
Test Limit:	0.5-5	56	46		
Will work	5-30 And San	60	50 And		
k Anbors Ar.	*Decreases with the logarithm of t	he frequency.			
Test Method:	ANSI C63.10-2020 section 6.2	Anborek Anbore	And		
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unline conducted emissions from the conducted emission				

# 3.1. EUT Operation

Operating Envi	ronment:	Anbo	botek .	Aupote	Ann	Anborek	Anbo.
Test mode:	hopping) w 2: TX-π/4-[ (non-hoppi 3: TX-8DPS	ith GFSK model of the GFSK (Norng) with $\pi/4$	odulation. n-Hopping): K DQPSK mod oping): Keep	eep the EU <sup>-</sup> ulation.	ontinuously trans T in continuousl continuously trai	y transmitting	g mode

### 3.2. Test Setup





Hotline

www.anbotek.com.cn

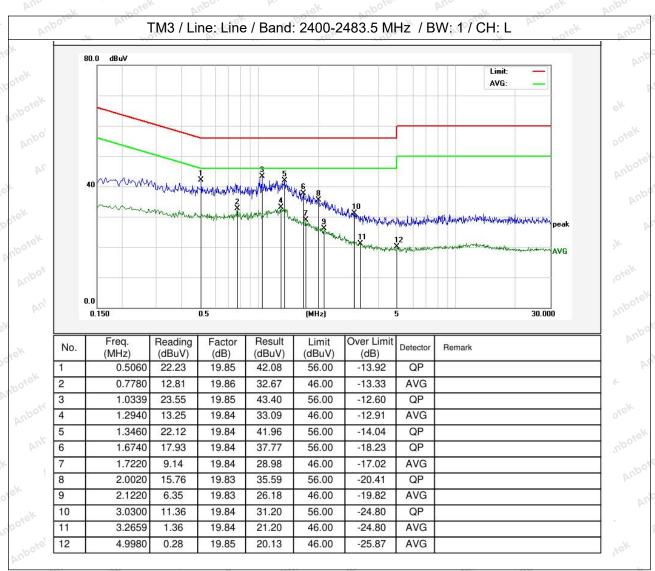
400-003-0500



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#### 3.3. Test Data

Temperature: 24.4 °C Humidity: 48.4 % Atmospheric Pressure: 96 kPa

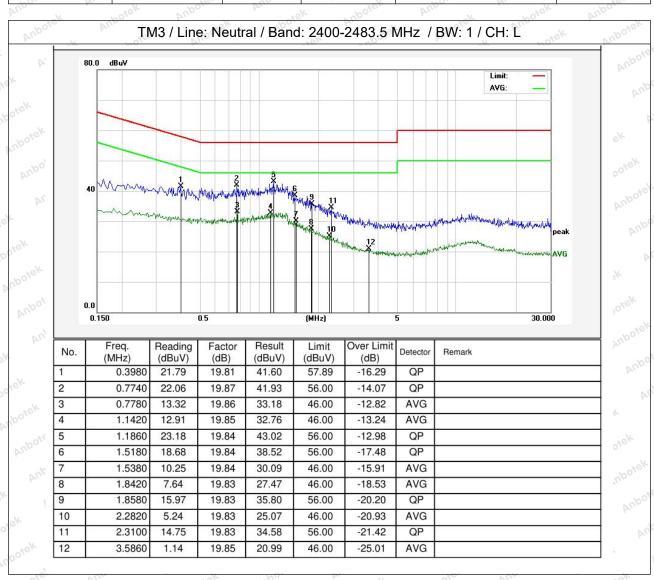






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Temperature: 24.4 °C Humidity: 48.4 % Atmospheric Pressure: 96 kPa



Note:Only record the worst data in the report.







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# 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit:	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.
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	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 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 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 (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 specified range.
	e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
	f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the
	trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99%
	power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing 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 the plot(s).

# 4.1. EUT Operation

	Operating Envir	onment:	Anboiek	Aupo.	w. spotek	Anbore.	Yun	anboie
e)	Test mode:	1: TX-GFSK hopping) wit			ne EUT in co	ntinuously tra	ansmitting mode	(non-





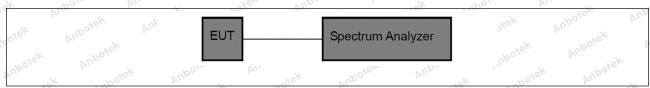


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2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with  $\pi$ /4 DQPSK modulation.

3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

### 4.2. Test Setup



#### 4.3. Test Data

-	Temperature:	24.5 °C	Humidity:	48.6 %	Atmospheric Pressure:	101 kPa
---	--------------	---------	-----------	--------	-----------------------	---------





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# 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
Anbotek	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 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. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Procedure:	f) Trace: Max-hold. g) Allow trace to stabilize.
ek anbotek Ant	h) Use the marker-to-peak function to set the marker to the peak of the emission.
	<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 the test report.</li> <li>NOTE—A peak responding power meter may be used, where the power</li> </ul>
Aupotek Aupote	meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

# 5.1. EUT Operation

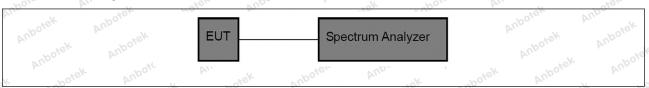
70	Operating Envi	nment: Anborek Anborek Anborek Anborek Anborek Anborek	.
7	Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non hopping) with GFSK modulation. 2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mod (non-hopping) with $\pi$ /4 DQPSK modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.	otek de mbote





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### 5.2. Test Setup



#### 5.3. Test Data

Temperature:	24.5 °C	Humidity:	48.6 %	Atmospheric Pressure:	101 kPa
. 2/1. 2 . 2 . 2 . 2 . 2 . 2	= 110		10.0 /	, m	10.111





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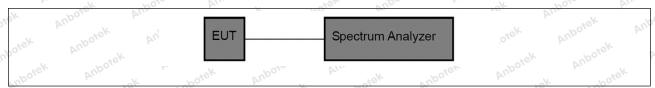
# 6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	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
Anbotek	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. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
botek Anbotek	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

Operating Envi	ronment:	Andrek	abotek	Aupor	hotek hotek	Anbo
Test mode:	4: TX-GFSK (Hopping): with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping) with π/4 DQP 6: TX-8DPSK (Hopping) with 8DPSK modulation	ping): Keep the SK modulation. : Keep the EUT	EUT in cont	inuously trar	nsmitting mode	ek ek

### 6.2. Test Setup



### 6.3. Test Data

Temperature:	24.5 °C	Humidity:	48.6 %	Atmospheric Pressure:	101 kPa
V	1-0/2 D//	,	-SL VO	1 1	10,,









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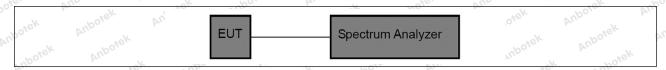
# 7. Number of Hopping Frequencies

00	~0,	D1,	- XO*-			70,
Test Requirement:	47 CFR 15	5.247(a)(1)(iii)	Anbo.	bojek	Anbore.	Ansotek
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	2483.5 MH occupancy period of 0 employed. transmissi	7 CFR 15.247( Iz band shall u on any chann 0.4 seconds mo Frequency ho ons on a partio Is are used.	use at least 1 nel shall not bultiplied by the opping systen	5 channels. To be greater that e number of l ns may avoid	he average ti n 0.4 seconds nopping chan or suppress	me of s within a nels
Test Method:	ANSI C63.	.10-2020, sect	ion 7.8.3	Anbotek	Aupo, ak	Ar. hořek
Anbotek	spectrum a a) Span: T channels t range of o be clearly b) RBW: T 30% of the c) VBW ≥ d) Sweep: e) Detecto f) Trace: M g) Allow th  It might pro all of the h regulatory	o identify clear channel spac RBW. No faster thar r function: Pea	gs: band of operaports, it could smultiple sports and individual sing or the 20 and coupled (auals. It is break the noies. Completermined for	ation. Depend the necessar ans, to allow ual channels, dB bandwidt to) time. span up into iance of an E or the number	ling on the nury to divide the the individual set the RBW h, whichever subranges to UT with the a of hopping ch	mber of e frequency channels to to less than is smaller.

# 7.1. EUT Operation

Operating Envi	onment: Anbore Anbore Anbore Anborek Anborek
Test mode:	<ul> <li>4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.</li> <li>5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation.</li> <li>6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.</li> </ul>

# 7.2. Test Setup



# 7.3. Test Data

Temperature:	24.5 °C	Humidity:	48.6 %	Atmospheric Pressure:	101 kPa
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# 8. Dwell Time

Aupor Armin	potek Aupo k. otek aupote Aug sk potek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	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 7.8.4
Anbotek Anbotek Anbotek Anbotek	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 has 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.
	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.
potek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Procedure:	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 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.
	Use the following spectrum analyzer settings to determine the dwell time per hop:
	<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> <li>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 =</li> </ul>
	1/hopping rate) should achieve this. 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.
k Anbotek Anbo	<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>









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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

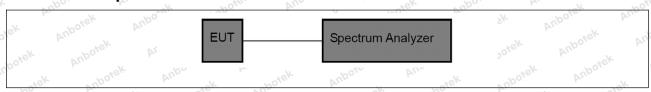
#### Operating Environment:

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

Test mode:

- 5: TX- $\pi$ /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with  $\pi$ /4 DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

#### 8.2. Test Setup



#### 8.3. Test Data

Temperature:	24.5 °C	Humidity:	48.6 %	Atmospheric Pressure:	101 kPa	35







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# 9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Anbotek Anbotek Anbotek Anbotek  Test Limit: 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  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:  Anborek  Anborek  Anborek  Anborek	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 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







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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.

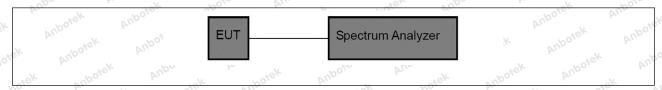
### 9.1. EUT Operation

#### Operating Environment:

- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
- 2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with  $\pi$ /4 DQPSK modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
- 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..
- 5: TX- $\pi$ /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with  $\pi$ /4 DQPSK modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

#### 9.2. Test Setup

Test mode:



#### 9.3. Test Data

Temperature:	24.5 °C	Humidity:	48.6 %	Atmospheric Pressure:	101 kPa
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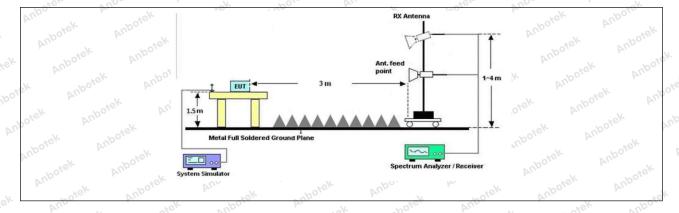
# 10. Band edge emissions (Radiated)

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	ly with the
k Aupotek Aupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. A. Stek	0.009-0.490	2400/F(kHz)	300 mbort
aborek Ando	0.490-1.705	24000/F(kHz)	30 Lotek
Ar. Anboter	1.705-30.0	30° , kek , nbo	30 And
Anbo. A. otek	30-88	100 **	3 ek nobore
- aborek Anbo	88-216	150 **	3
Test Limit:	216-960	200 **	3 boten And
V. Vipo,	Above 960	500 Morel Ambou	3 rek onb
nbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.10 Anbo	Anbore. And
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Anboten Anbe

# 10.1. EUT Operation

Operating Envi	ronment:	hoiek A	inpoter. Aug	iek.	anboiek	Anbo.
Test mode:	hopping) with GFS 2: TX-π/4-DQPSk	( (Non-Hopping): k n π/4 DQPSK mod n-Hopping): Keep	Keep the EUT i	n continuo	ously transn	nitting mode

### 10.2. Test Setup





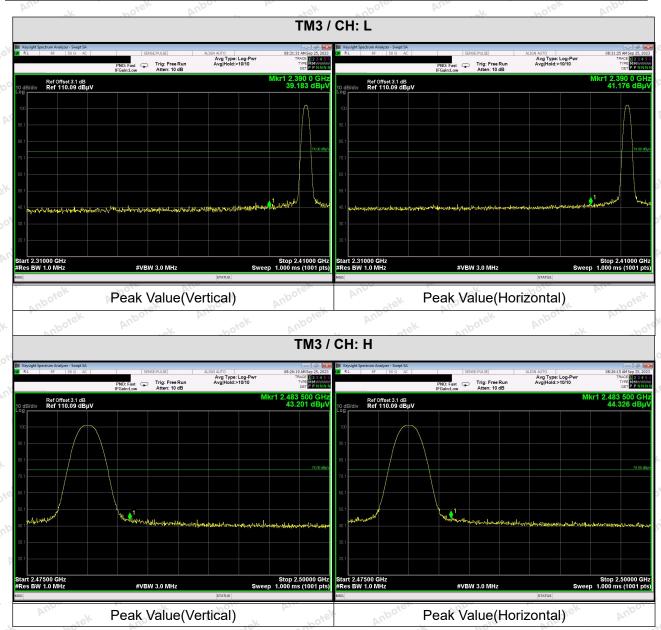




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### 10.3. Test Data

Temperature: 24.5 °C Humidity: 48.6 % Atmospheric Pressure: 101 kPa







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#### Average:

Test Mode	Peak Value (dBuV/m)	DCCF	Average Value (dBuV/m)	Limit (dBuV/m)	Polarization	Verdict
TM3 / CH: L	39.183	-2.24	36.943	54.00	Vertical	Pass
	41.176	-2.24	38.936	54.00	Horizontal	Pass
TM3 / CH: H	43.201	-2.24	40.961	54.00	Vertical	otel Pass
	44.326	-2.24	42.086	54.00	Horizontal	Pass

#### Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 1. DCCF=20log(Duty Cycle)
- 2. Average Value=Peak Value+DCCF





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

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
tek Vupotek Vupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 0000
boiek Ando	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30° , atok 000°	30
	30-88	100 **	3,ek nbore
- sporek Andr	88-216	150 **	3
Test Limit:	216-960	200 **	3 botes And
	Above 960	500 Morel Ambou	3
Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4 And a sport of the sport	Anbores And
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore	upotek Ar

# 11.1. EUT Operation

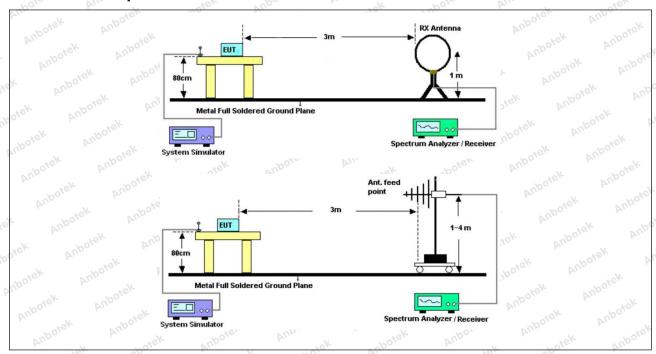
Operating Envi	ronment:	bo'ek	Anboren	And	anbotek	Aupo,
Test mode:	1: TX-GFSK (Nor hopping) with GF 2: TX-π/4-DQPSI (non-hopping) wit 3: TX-8DPSK (No hopping) with 8D	SK modulation. K (Non-Hopping th π/4 DQPSK n on-Hopping): Ke	): Keep the nodulation. ep the EUT	EUT in continu	ously transi	mitting mode





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### 11.2. Test Setup



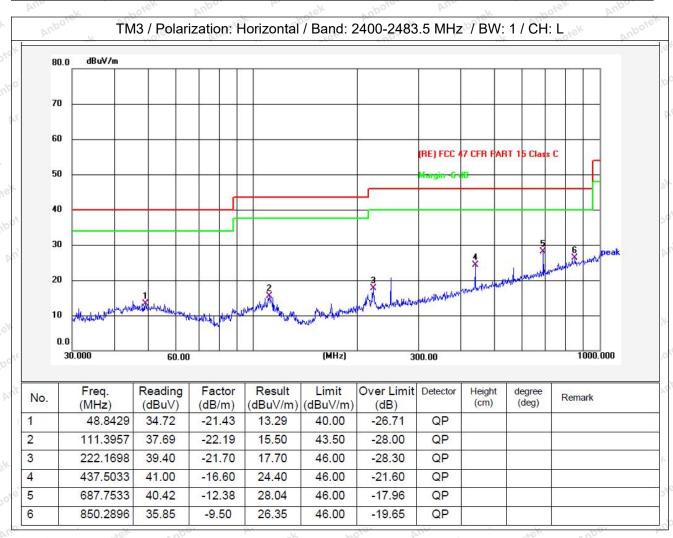




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#### 11.3. Test Data

Temperature: 25 °C Humidity: 42 % Atmospheric Pressure: 101 kPa

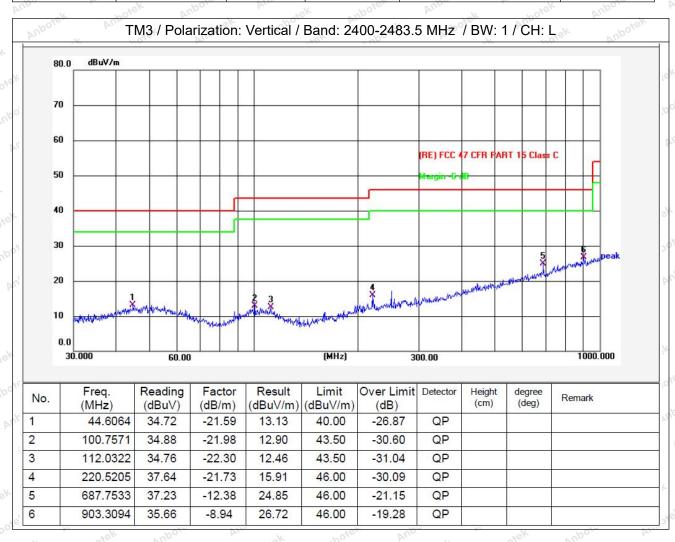






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Temperature: 25 °C Humidity: 42 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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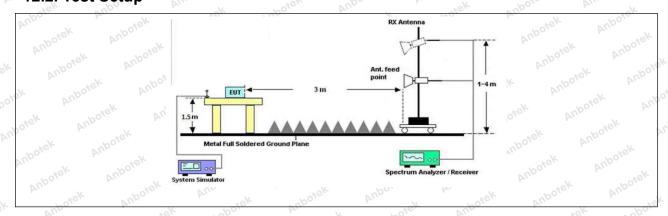
# 12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted background $S(x)$ .	
otek Vupotek Vupo.	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
, wotek	0.009-0.490	2400/F(kHz)	300 mboto
nboren Anb	0.490-1.705	24000/F(kHz)	30
otek Anbote	1.705-30.0	30° Arek anbo	30
Anbo	30-88	100 **	3 ck nbore
T thore And	88-216	150 **	3
Test Limit:	216-960	200 **	3bore And
k Aupo, W.	Above 960	500 hotel Anbou	3 rek and
nbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4 Marie	Anbote. And
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore And	Aupotek Aup

# 12.1. EUT Operation

Operating Env	ironment:	bu. polek				
Test mode:	1: TX-GFSK (Non hopping) with GF 2: TX-π/4-DQPSk (non-hopping) wit 3: TX-8DPSK (No hopping) with 8DI	SK modulation. ( (Non-Hopping) h π/4 DQPSK m n-Hopping): Kee	: Keep the El nodulation. ep the EUT in	JT in continu	ously transr	nitting mode

### 12.2. Test Setup









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### 12.3. Test Data

Temperature: 24.5 °C	Humidity: 48.6 %	Atmospheric Pressure:	101 kPa
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	WA K.		TM3 / CH: L		-10°	r .
			I IVIS / CH. L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	27.37	15.27	42.64	74.00	-31.36	Vertical
7206.00	28.50	18.09	46.59	74.00	-27.41	Vertical
9608.00	29.39	23.76	53.15	74.00	-20.85	Vertical
12010.00	Anbore * Ar	iek .	abotek Anb	74.00	otek Anbote	Vertical
14412.00	VUPO*SK	Aupo	hotek P	74.00	otek ont	Vertical
4804.00	27.73	15.27	43.00	74.00	-31.00	Horizontal
7206.00	28.74	18.09	46.83	74.00	-27.17	Horizontal
9608.00	28.32	23.76	52.08	74.00	-21.92	Horizontal
12010.00	otek * Anbo	-k 20	iek Anbore	74.00	s abotek	Horizontal
14412.00	notek* An	ports Ant	iek abo	74.00	ok hote	Horizontal
Average value:						
	D 1:	F (	D 11	1,	0 1: "	
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.75	15.27	32.02	54.00	-21.98	Vertical
7206.00	17.53	18.09	35.62	54.00	-18.38	Vertical
9608.00	18.41 M	23.76	42.17	54.00	-11.83	Vertical
12010.00	notek.	Aupote, Au	iek .	54.00	. by	Vertical
14412.00	Ans *	anboiek	Aupo.	54.00	ipole. Aug	Vertical
4804.00	16.08	15.27	31.35	54.00	-22.65	Horizontal
7206.00	17.80	18.09	35.89	54.00	-18.11	Horizontal
9608.00	17.63	23.76	41.39	54.00	-12.61	Horizontal
12010.00	sek *	otek Wipor	er ros	54.00	YUB-	Horizontal
14412.00	4 ×	soiek Ant	oto. And	54.00	ek Vupo,	Horizontal





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			ГМ3 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	27.39	15.42	42.81	74.00	-31.19 · · · ·	Vertical
7323.00	28.35	18.02	46.37	74.00	-27.63	Vertical
9764.00	28.40	23.80	52.20	74.00	-21.80	Vertical
12205.00	ek * spotek	Aupor	h worek	74.00	And	Vertical
14646.00	* * *	lek Wipole	Pup	74.00	Aupo, K	Vertical
4882.00	27.43	15.42	42.85	74.00	-31.15	Horizontal
7323.00	28.73	18.02	46.75	74.00	-27.25	Horizontal
9764.00	28.02	23.80	51.82	74.00	-22.18	Horizontal
12205.00	* otek	Aupoles	And	74.00	Yuporg Mr.	Horizontal
14646.00	M*	nbotek	Aupo	74.00	Anboren	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	16.48	15.42	31.90	54.00	-22.10	Vertical °
7323.00	17.63	18.02	35.65	54.00	-18.35	Vertical
9764.00	18.27	23.80	42.07	54.00	-11.93	Vertical
12205.00	k *upo,	An alek	anbotek	54.00	boiek	Vertical
14646.00	otek * Anboti	And	ek abotek	54.00	Principle K	Vertical
4882.00	15.99	15.42	31.41	54.00	-22.59	Horizontal
7323.00	17.36	18.02	35.38	54.00	-18.62	Horizontal
9764.00	18.14	23.80	41.94	54.00	2010-12.06 M	Horizontal
12205.00	anbotek	Aupo	abotek	54.00	in otek	Horizontal
14646.00	* "otek	Anbor	All	54.00	VUD.	Horizontal





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Le. VUD	- tek	vupo,	N. OK	-hote.	VUR.	ate <sup>K</sup>
			TM3 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	27.66	15.58	43.24	74.00	-30.76	Vertical
7440.00	28.36	17.93	46.29	74.00	-27.71	Vertical
9920.00	28.95	23.83	52.78	74.00	-21.22	Vertical
12400.00	* woiel	Aupoles	And	74.00	Anbo.	Vertical
14880.00	* And	rek "potel	Aupo.	74.00	Anbore	Vertical
4960.00	27.50	15.58	43.08	74.00	-30.92	Horizontal
7440.00	28.76	17.93	46.69	74.00	-27.31	Horizontal
9920.00	28.70	23.83	52.53	74.00	-21.47	Horizontal
12400.00	Anb * *ek	abořek	Aupo,	74.00	Anbote, An	Horizontal
14880.00	Mixpo.	hotek hotek	Anbores	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	17.60	15.58	33.18	54.00	-20.82	Vertical
7440.00	18.64	17.93	36.57	54.00	17.43 And	Vertical
9920.00	18.82	23.83	42.65	54.00	-11.35	Vertical
12400.00	* * potek	Anbo.	hotek	54.00	Pur	Vertical
14880.00	* * *	sk Aupore	Aug	54.00	Aupo	Vertical
4960.00	17.43	15.58	33.01	54.00	-20.99	Horizontal
7440.00	18.73	17.93	36.66	54.00	-17.34	Horizontal
9920.00	18.04	23.83	41.87	54.00	-12.13	Horizontal
12400.00	* tek	Aupotes	Aur	54.00	Po. by	Horizontal
14880 00	Aux *	hotel	Anbo	54 00	Vupoje 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.
- 3. Only the worst case is recorded in the report.







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### APPENDIX I -- TEST SETUP PHOTOGRAPH

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

#### APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

### APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

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

