

182519C400017101 FCC ID: 2BGMD-IF15 Page 1 of 40 Report No.:

FCC Test Report

Applicant Shenzhen FCY acoustics Co., Ltd

9015, Baode Industrial Center, Lixin South

Road, Huaide Community, Fuyong Street, **Address**

Shenzhen, Guangdong, China

Product Name Wireless Headset

: Jun. 03, 2024 **Report Date**



ce Laboratory Limited









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TEST REPORT

Applicant : Shenzhen FCY acoustics Co., Ltd

Manufacturer : Shenzhen FCY acoustics Co., Ltd

Product Name : Wireless Headset

Test Model No. : IF-15

Reference Model No. : IF-23, IF-25, IF-26, IF-28

Trade Mark : AIFA

Rating(s) Charging case: with DC 3.7V 500mAh Battery inside

Headset: with DC 3.7V 30mAh Battery inside

47 CFR Part 15.247

Test Standard(s) : ANSI C63.10-2020

KDB 558074 D01 15.247 Meas Guidance v05r02

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.	IVIAY 22, 2024
Date of Test:	May 22, 2024 to May 31, 2024
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Prepared By:	And take
	(TuTu Hong)
	Idward pan
Approved & Authorized Signer:	Anbore, And Ask Anborek Anbo.
	(Edward Dan)





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Revision History

Report Version	Description	Issued Date
Anbore ROO potek An	Original Issue.	Jun. 03, 2024
W. Aupotek Aupotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb
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1. General Information

1.1. Client Information

Applicant	: Shenzhen FCY acoustics Co., Ltd
Address	9015, Baode Industrial Center, Lixin South Road, Huaide Community, Fuyong Street, Shenzhen, Guangdong, China
Manufacturer	: Shenzhen FCY acoustics Co., Ltd
Address	9015, Baode Industrial Center, Lixin South Road, Huaide Community, Fuyong Street, Shenzhen, Guangdong, China
Factory	: Shenzhen FCY acoustics Co., Ltd
Address	9015, Baode Industrial Center, Lixin South Road, Huaide Community, Fuyong Street, Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

40.		ok Po. B. Sk. Vub. Sk.
Product Name	:	Wireless Headset
Test Model No.	:	NF-15 Anborek Anborek Anborek Anborek Anborek
Reference Model No.	:	IF-23, IF-25, IF-26, IF-28 (Note: All samples are the same except the model number & appearance color, so we prepare "IF-15" for test only.)
Trade Mark	:	AIFA Anborek Anborek Anborek Anborek Anb
Test Power Supply	:	AC 120V/60Hz for adapter/DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A otek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	179 And Stek Anborek Anbore Amborek Anborek Anborek A
Modulation Type	:	GFSK, π/4 DQPSK
Antenna Type	:	Ceramic Antenna
Antenna Gain(Peak)	:	3.35 dBi (Provided by customer)
P 2/00	- 1	Sept 200

Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- (3)The EUT consists of two parts, the left and right earphone, both have been tested and only the test data of left earphone recorded in this report.





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1.3. Auxiliary Equipment Used During Test

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





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1.4. Operation channel list

Operation Band:

Operation i	Band:	VII.	wo ier	Anbo	You	abore	VII.
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
V Ophote	2402	20 Not	2422	40	2442, bote	60 1000	2462
otek 1 Anb	2403	21 N	ote ^k 2423 kn ^{bo}	41	2443 AND	oten 61 And	2463
work2	2404	22	2424	42	2444	62 f	2464
3/	2405	23	2425	43	2445	63	2465
4 dotek	2406	24	2426	44	2446	64	2466
5 pore	2407	25	2427	45	2447	65 100 te	2467
6 nb	2408	26	2428 NOO'	46 Anb	2448	iek 66 Pup	2468
7	2409	27	2429	o ^{tel} 47 An	2449	ibote ^k 67	2469
8	2410	28	2430	48	2450	68	2470
Anbo 9 tek	2411	29	2431	49	2451	69	2471
10 tek	2412	30	2432	50	2452	70,00 tek	2472
11	2413	31 ^{nbox}	2433	51 _{Anbot}	2453	ek 71 Anbo	2473
12	2414	32 And	2434	otek 52 Anl	2454	ote* 72	2474 And
13	2415	100tel 33	2435	53	2455	73	2475
Anbort 14	2416	34	2436	54	2456	74	2476
M15	2417	35	2437	55	2457	75,00kek	2477
16	2418	36	2438	56 no 10	2458	76	2478
17Anbo	2419	ek 37 Anbe	2439	stek 57 Ant	2459	77	2479 And
otek 18 An	2420	otel 38 N	2440	58	2460	78	2480
19	2421	39	2441	59	2461	Yupo, atek	anbo <u>r</u> ek
- V	~~~	177			· · · · · · · · · · · · · · · · · · ·		·

1.5. Description of Test Modes

Pretest Modes	Descriptions		
TM1 Anborek	Keep the EUT in continuously transmitting mode (non-hopping) wit GFSK modulation.		
TM2 Anbore	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.		
Anborek TM3	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.		
Anborek TM4nborek	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK 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
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

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





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1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	W. Volek / Wholes	Ant Potek
Conducted Emission at AC power line	Mode1,2	P
Occupied Bandwidth	Mode1,2	PART
Maximum Conducted Output Power	Mode1,2	P
Channel Separation	Mode3,4	hpor Pk
Number of Hopping Frequencies	Mode3,4	Anber P tek
Dwell Time	Mode3,4	A P
Emissions in non-restricted frequency bands	Mode1,2,3,4	P ^{Anba}
Band edge emissions (Radiated)	Mode1,2	P Ant
Emissions in frequency bands (below 1GHz)	Mode1,2	upor P
Emissions in frequency bands (above 1GHz)	Mode1,2	Anbore P. ek
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anbote

N: N/A, not applicable





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1.8. Description of Test Facility

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

FCC-Registration No.:434132

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

ISED-Registration No.: 8058A

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

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

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

1.9. Disclaimer

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

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







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1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupo	k hotel	Anbore	Andrek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
otek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
30t	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Alooiek	Anborek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

	Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
4	1	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
	41130tel	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05
	4.nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
	5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
X E	6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03



Hotline

www.anbotek.com.cn

400-003-0500



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	sions in frequency ba edge emissions (Ra		Aupotek	Anborek	Aupotek	Anborek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	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
nbore 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Andotek	Anboiek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05
,e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Emis	sions in frequency ba	ands (below 1GHz)	Anbore.	Andhotek	Anboiek	Anbo
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Antotel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5,00	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	y Aupon	k Anbotek



Shenzhen Anbotek Compliance Laboratory Limited



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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 **Ceramic Antenna** which permanently attached, and the best case gain of the antenna is **3.35 dBi** . It complies with the standard requirement.





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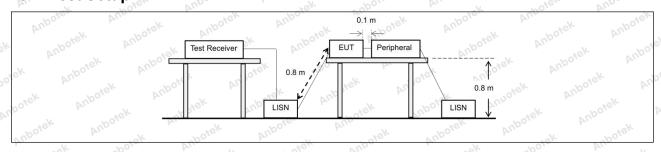
3. Conducted Emission at AC power line

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 that my frequency or frequencient t exceed the limits in the f	nected to the at is conducted es, within the ollowing table, as
spotek Anboy	Frequency of emission (MHz)	Conducted limit (dBµV)	i stek
YII.	Anbore Anbore	Quasi-peak	Average
Aupor Ar.	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5	56. An	46
VII.	5-30 And 5	60	50 PER AND
k Aupor K Ai.	*Decreases with the logarithm of t	he frequency.	
Test Method:	ANSI C63.10-2020 section 6.2	Anbores.	Aug
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un		

3.1. EUT Operation

	Operating Envir	onment:	Anbo.	K %	ek Anbo	ie. Vu	rek	Anborek	Anbo.
, O	Test mode:	hopping) 2: TX-π/4	with GFSK -DQPSK (N	modulation lon-Hoppin	00, N	EUT in co	Vupote,	smitting mod y transmittin	. ak

3.2. Test Setup





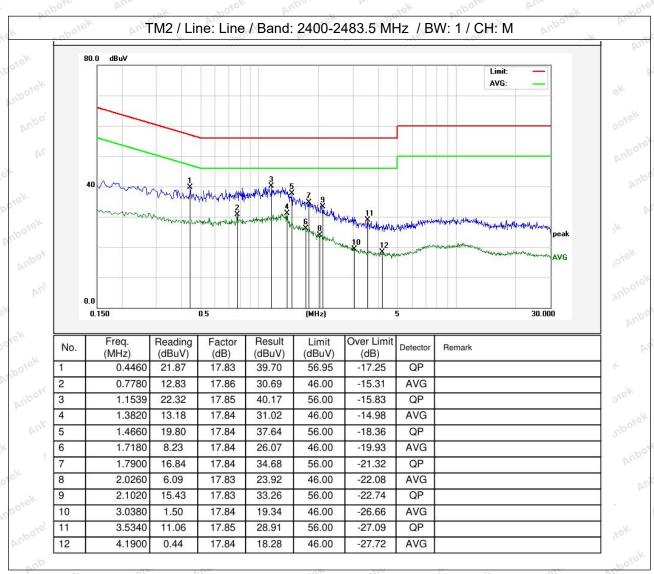
Hotline



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3.3. Test Data

Temperature: 22.6 °C Humid	idity: 51.5 % Atmospheric Pressure: 101 kPa
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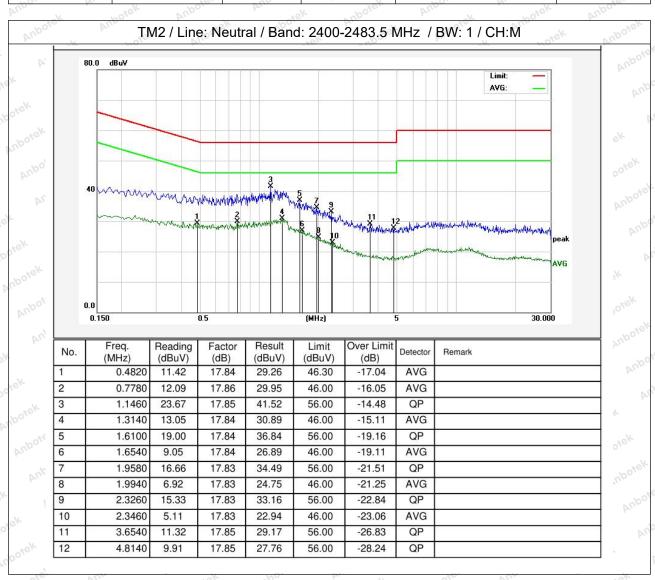






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Temperature: 22.6 °C Humidity: 51.5 % Atmospheric Pressure: 101 kPa



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. KDB 558074 D01 15.247 Meas Guidance v05r02
	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
Anbotek Anbotek	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
Procedure:	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
potek Anbotek Ar	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
ootek Anbotek An	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
Aupotek Vupotek	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 Environment:







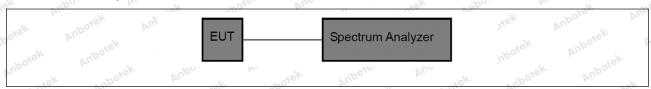
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Test mode:

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 mode (non-hopping) with $\pi/4$ DQPSK modulation.

4.2. Test Setup



4.3. Test Data

Dr.	76,	-	N N N	0,	16.
Temperature:	24.7 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa





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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
KTest Limit: Anborek Anborek Anborek Anborek Anborek	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 KDB 558074 D01 15.247 Meas Guidance v05r02
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. h) Use the marker-to-peak function to set the marker to the peak of the emission.
	 i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in 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 analyzer.

5.1. EUT Operation

Operating Envi	ronment:	Anbore	Vu. Polsk	Anborek	Aupo	abotek
Test mode:	1: TX-GFSK (Non-I hopping) with GFSI 2: TX-π/4-DQPSK (non-hopping) with	K modulation. (Non-Hopping):	: Keep the El	Arra	ek sbote	Anbo

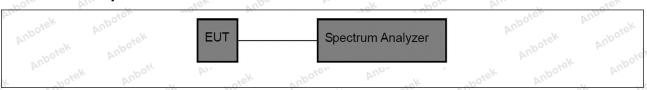






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5.2. Test Setup



5.3. Test Data

10	Taustin a na fi ina i 🎊	24 7 °C	1 1 : al:40}	4E 06001	Atus a sub suis Dussalvus	404 LD-
	Temperature:	24.7 6	Humidity:	45 %	Atmospheric Pressure:	101 kPa





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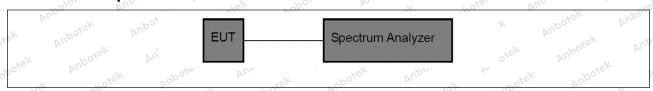
6. Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit: Anbotek 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 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek 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.
Procedure:	e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.
Potek Pupotek	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	onment:	k hotek	Anborer	Aug	riek	anbotek	Anbo.	ok Di.
Test mode:	with GFSK 4: TX-π/4-[K (Hopping): K modulation,. DQPSK (Hoppi with π/4 DQPSI	ng): Keep th	e EUT in	nboter		. 26.	potek

6.2. Test Setup



6.3. Test Data

Temperature:	24.7 °C	VUPO	Humidity:	45 %	Anboro	Atmosph	eric Pressure	: 101 kPa	
MA			770			7/2	- WV	A	







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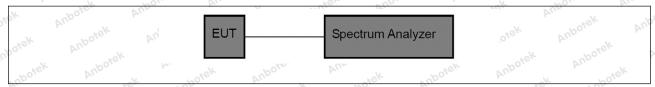
7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek 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 KDB 558074 D01 15.247 Meas Guidance v05r02
Anborek	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 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. 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

Operating Envi	ronment:					otek An
Test mode:	with GFSK m 4: TX-π/4-DQ	Hopping): Keep odulation,. PSK (Hopping): n π/4 DQPSK mo	Keep the El	rek a	upore.	AUD - OK

7.2. Test Setup



7.3. Test Data

Temperature: 24.7 °C	Humidity: 45 %	Atmospheric Pressure:	101 kPa
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8. Dwell Time

Anbor Air	poier	And	- crek	Suporc	Di.	Yes	poler
Test Requirement:	47 CFR 15.	247(a)(1)(iii) And	ek noo	tek Ant	0,0	VII.
Test Limit:	2483.5 MHz occupancy period of 0. employed.	z band shall on any char 4 seconds n Frequency h ns on a part	7(a)(1)(iii), Fouse at least anel shall no nultiplied by acpping systemicular hopping	15 channel be greater the number ems may av	s. The aver than 0.4 se of hopping oid or supp	age time econds wi channels ress	of thin a
Test Method:		0-2020, sed 4 D01 15.24	ction 7.8.4 17 Meas Gui	dance v05r0	oz _{iek} Anb	upotek	Aupotek Br.
	transmissio a single tra transmissio	n to the end nsmission ponder n. If the dev s measured	on a channe of the last to er hop then to ice has a mu from the sta	ansmission he dwell tim Iltiple transr	for that hop ne is the du nissions pe	p. If the deriversity of the read of the r	evice has hat n the
	over an obs determine t measure bo	servation per he time of o oth the dwell	is the total ti riod specified ccupancy the time per ho channel in a	d in the regue e spectrum p and the nu	ılatory requ analyzer wi umber of tin	irement. ⁻ Il be conf	To igured to
Procedure:	requirement number of of the number based on the dwell times for 1, 3 or 5	ts shall be no channels end of channels ne minimum per channe time slots)	hopping fundade with the abled. If the than comple number of complete and the measurement of the measurement of the measurement of the the measurement of the measure	e minimum a dwell time p iance with th hannels. If t luetooth dev ements can	and with the per channel ne requirem he device s vices can d be limited	e maximu does not nents may supports o well on a	m vary with be different channel
otek Anbotek A	Use the foll hop:	owing spect	rum analyze	r settings to	determine	the dwell	time per
	a) Span: Ze b) RBW sha	all be ≤ char	ntered on a land	and where	possible RE		Anboren d benborel
	c) Sweep ti last transm	me: Set so t ssion for the	hat the start hop are cle	of the first to arly capture	ransmissior ed. Setting t	n and end the sweep	time to
	1/hopping r d) Use a vid the transmi	ate) should deo trigger, v ssion is clea	he hopping achieve this where possib rly observed	ole with a trig I. The trigge	gger delay, r level migh	so that th	ie start of djustment
	channel. e) Detector f) Trace: Cl	function: Pe ear-write, sir		ootek Ar	anbotek (Anbotek Anbotek	









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the end of the last transmission. The dwell time per hop is the time between 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.

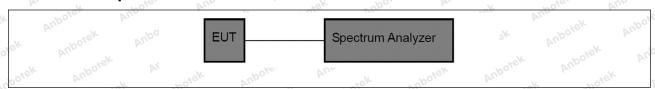
8.1. EUT Operation

Operating Environment:

Test mode:

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

8.2. Test Setup



8.3. Test Data

Turnetty: 40 % Authorphone Todatic.	Temperature: 24	24.7°C	Humidity: 1/	15 %	Atmospheric Pressure:	101 kPa
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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 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 KDB 558074 D01 15.247 Meas Guidance v05r02
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:	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







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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

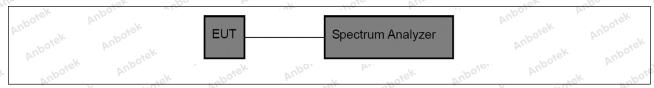
Operating Environment:

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

Test mode:

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

9.2. Test Setup



9.3. Test Data

Temperature:	24.7 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa
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10. Band edge emissions (Radiated)

NO N	~0, by,	7610	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~					
Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also comp	ly with the					
Vupo, Vupo,	Frequency (MHz)	ecified in § 15.209(a)(see § 15.2 Field strength	Measurement					
	schen And	(microvolts/meter)	distance (meters)					
	0.009-0.490	2400/F(kHz)	300 mboto					
poter Anbo	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30° kek	30 And					
	30-88	100 **	3,ek note					
	88-216	150 **	3					
	216-960	200 **	3 boten And					
Aupor Ar.	Above 960	500	3 rek and					
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.								
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		sk Aupotek					
Procedure:	ANSI C63.10-2020 section	6.10.5.2	or Am					

10.1. EUT Operation

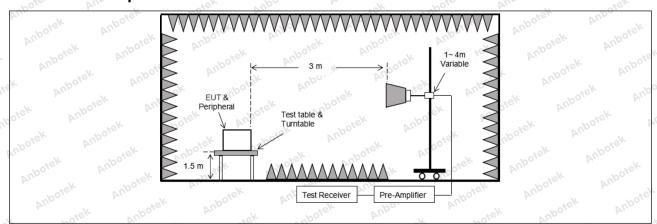
o ^{NS}	Operating Envir	onment:	^{vupotek}	Anbo	boiek	Anbore	An	20
202	Test mode:	1: TX-GFSK (Note that the hopping) with G 2: TX-π/4-DQP3 (non-hopping) v	FSK modul SK (Non-Ho	ation. ppping): Keep	the EUT in	- bv.	rek anbore	,





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10.2. Test Setup



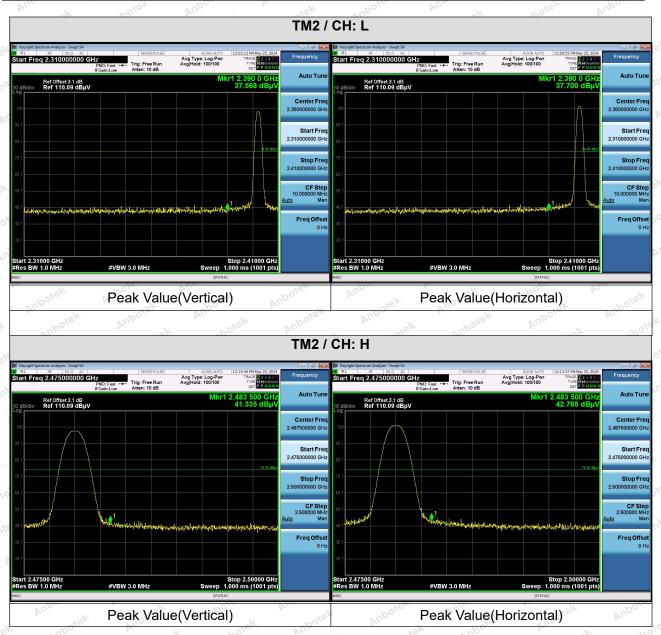




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10.3. Test Data

Temperature: 24.7 °C Humidity: 45 % Atmospheric Pressure: 101 kPa



Remark

1. During the test, pre-scan all modes, the report only record the worse case mode.

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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11. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as define	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the				
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)				
	0.009-0.490	2400/F(kHz)	300 mboro				
abotek Anbo	0.490-1.705	24000/F(kHz)	30 Stek				
	1.705-30.0	30	30				
	30-88	100 **	3,ek nbore				
	88-216	150 **	3				
	216-960	200 **	3 boten And				
	Above 960	500 Market Ando	3 sek al				
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MI However, operation within these frequency bands is permitted under of sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurem employing a CISPR quasi-peak detector except for the frequency band 90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits these three bands are based on measurements employing an average detector.							
Pup.	16 10, by	COLEK Sporter Bupp	r rotek				
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 N	* Up. 100.	Yun Potek				
Procedure:	ANSI C63.10-2020 section	6.6.4	DOL WE				

11.1. EUT Operation

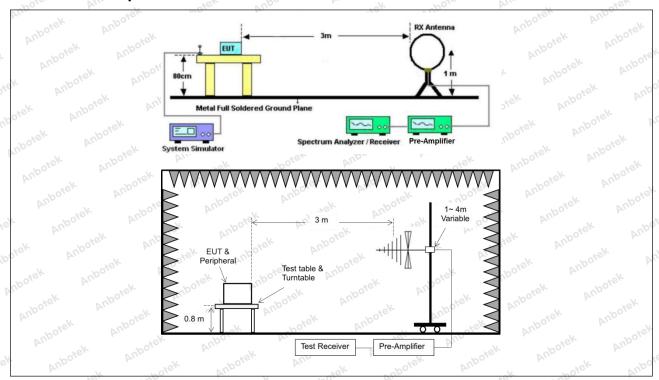
01	Operating Envir	onment:	Aupotek .	Anbo.	w. potek	Anbore.	VU _P	y An
20	Test mode:	1: TX-GFSK (N hopping) with O 2: TX-π/4-DQP (non-hopping)	SFSK modu SK (Non-Ho	lation. opping): Keep	the EUT in	- 20	nick not	oter





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11.2. Test Setup





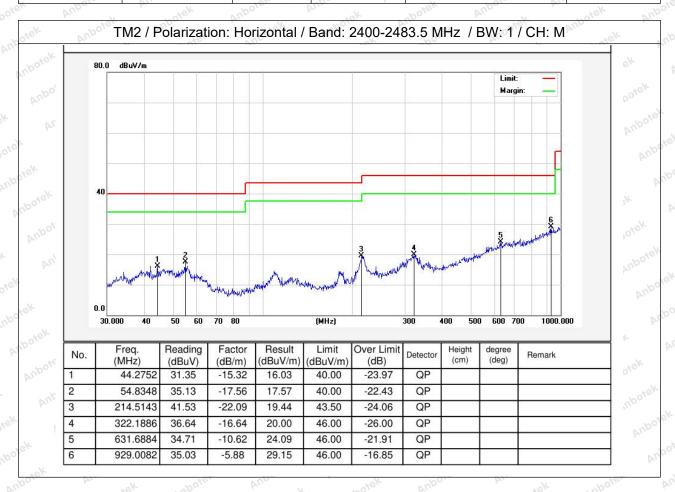


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11.3. Test Data

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:	24.7 °C	Humidity:	45 %	Atmospheric Pressure:	101 kPa

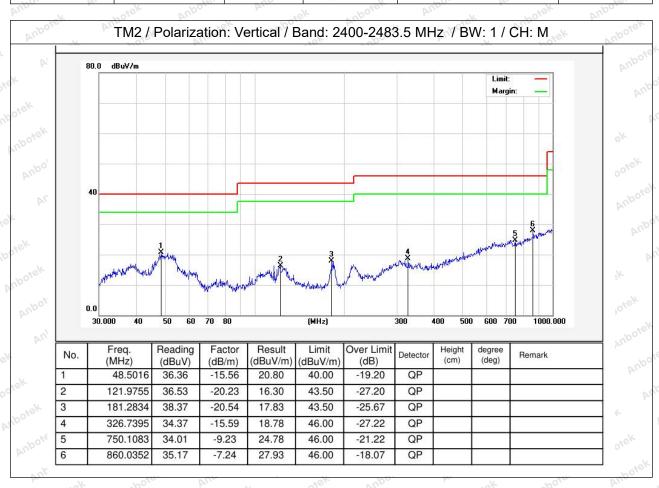






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Temperature: 24.7 °C Humidity: 45 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.







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12. Emissions in frequency bands (above 1GHz)

Test Requirement:	in § 15.209(a)(see § 15.20	comply with the radiated emissio 5(c)).`	ands, as defined n limits specified
ek Vupotek Vupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
oote, Aug	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30° katek	30
And ak hotek	30-88	100 **	3rek Anbor
	88-216	150 **	3
	216-960	200 **	3 bore. Am
est Limit:	Above 960	500 botek Anbo	3 NOTE
	intentional radiators opera	aragraph (g), fundamental emiss ting under this section shall not l Hz. 76-88 MHz. 174-216 MHz or	be located in the
Anbotek	intentional radiators opera frequency bands 54-72 Mł However, operation within sections of this part, e.g., § In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	ting under this section shall not I Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permit	be located in the 470-806 MHz. Itted under other band edges. In measurements quency bands 9– ssion limits in
Anbotek	intentional radiators opera frequency bands 54-72 Mł However, operation within sections of this part, e.g., § In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and these three bands are bas	ting under this section shall not I Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permit §§ 15.231 and 15.241. e, the tighter limit applies at the in the above table are based or peak detector except for the free above 1000 MHz. Radiated emited on measurements employing	be located in the 470-806 MHz. Itted under other band edges. In measurements quency bands 9– ssion limits in

12.1. EUT Operation

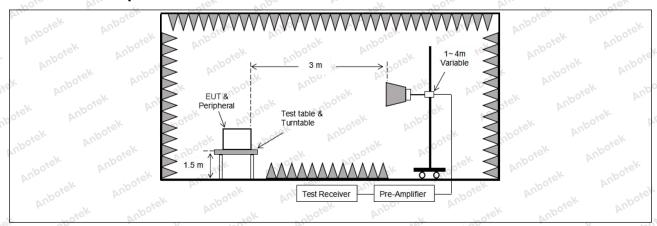
o31°	Operating Envir	onment:	Upolek	Anbo	-botek	Anbore	Ans	20
.010	Test mode:	1: TX-GFSK (Nonhopping) with GF 2: TX-π/4-DQPS (non-hopping) wi	SK modula K (Non-Ho	ation. pping): Keep	the EUT in		otek Anbote	





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12.2. Test Setup







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12.3. Test Data

Temperature: 24.7 °C	Humidity: 45 %	Atmospheric Pressure:	101 kPa
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Vu _p	hotek Anb		stek anboti	And	ok hotek	Anbo.
			TM2 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	27.56	15.27	42.83	74.00	-31.17	Vertical
7206.00	28.66	18.09	46.75	74.00	-27.25	Vertical
9608.00	29.61	23.76	53.37	74.00	-20.63	Vertical
12010.00	Aupote * A	io.	abotek Anb	74.00	otek Anbote	Vertical
14412.00	VUPO*SIK	Aupo	Potek b	74.00	otek onk	Vertical
4804.00	27.90	15.27	43.17	74.00	-30.83	Horizontal
7206.00	28.97	18.09	47.06	74.00	-26.94	Horizontal
9608.00	28.40	23.76	52.16	74.00	-21.84	Horizontal
12010.00	otek * Anbo	V. No	iek Aupote	74.00	s abotek	Horizontal
14412.00	hotek*	boye Wur	stek anbo	74.00	ok hote	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
4804.00	16.94	15.27	32.21	54.00	-21.79	Vertical
7206.00	17.69	18.09	35.78	54.00	-18.22	Vertical
9608.00	18.63	23.76	42.39	54.00	-11.61	Vertical
12010.00	No tek	Anbore. An	- sek	54.00	- No Pro-	Vertical o
14412.00	Ant *	anbotek	Aupo, K	54.00	ipole. Aug	Vertical
4804.00	16.25	15.27	31.52	54.00	-22.48	Horizontal
7206.00	18.03	18.09	36.12	54.00	-17.88	Horizontal
9608.00	tek 17.71 nbote	23.76	41.47	54.00	-12.53	Horizontal
12010.00	rek *	otek Aupo.	-K NO!	54.00	And	Horizontal
14412.00	Upo. *	ingiek ant	oto And	54.00	ek Aupo	Horizontal



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				hotek	Anbor	*ek
			ГМ2 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	27.58	15.42	43.00	74.00	-31.00	Vertical
7323.00	28.51	18.02	46.53	74.00	-27.47	Vertical
9764.00	28.62	23.80	52.42	74.00	-21.58	Vertical
12205.00	ek * nbotek	Anbo.	hotek	74.00	And	Vertical
14646.00	* * *	tek Aupote	Pur Vie	74.00	Vupo.	Vertical
4882.00	27.60	15.42	43.02	74.00	-30.98	Horizontal
7323.00	28.96	18.02	46.98	74.00	-27.02	Horizontal
9764.00	28.10	23.80	51.90	74.00	-22.10	Horizontal
12205.00	* otek	Anbore	And	74.00	Yupo.	Horizontal
14646.00	A.T. Otek	Anbotek	Aupo	74.00	Anbois	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	16.67	15.42	32.09	54.00	-21.91	Vertical
7323.00	17.79	18.02	35.81	54.00	-18.19	Vertical
9764.00	18.49	23.80	42.29	54.00	-11.71	Vertical
12205.00	k *upote	N Diek	anboter	54.00	aboiek	Vertical
14646.00	otek * Anboti	And	sk spojek	54.00	k otek	Vertical
4882.00	16.16	15.42 nbo	31.58	54.00	-22.42	Horizontal
7323.00	17.59	18.02	35.61	54.00	-18.39	Horizontal
9764.00	18.22	23.80	42.02	54.00	11.98 And	Horizontal
12205.00	Anbotek	Anb.	botek	54.00	wotek D	Horizontal
14646.00	* botek	Anbo	D. C. C.	54.00	And	Horizontal



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Ler AUD	- rek	Vupo,	N. OK	-hote.	VUR.	rek.
			TM2 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	27.85	15.58	43.43	74.00	-30.57 NOO	Vertical
7440.00	28.52	17.93	46.45	74.00	-27.55	Vertical
9920.00	29.17	23.83	53.00	74.00	-21.00	Vertical
12400.00	* work	Aupoles	And	74.00	Aupo,	Vertical
14880.00	* And	rek "potel	Aupo.	74.00	Aupore.	Vertical
4960.00	27.67	15.58	43.25	74.00	-30.75	Horizontal
7440.00	28.99	17.93	46.92	74.00	-27.08	Horizontal
9920.00	28.78	23.83	52.61	74.00	-21.39	Horizontal
12400.00	And *	abotek	Aupo,	74.00	Aupote, Au	Horizontal
14880.00	W.*	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	17.79	15.58	33.37	54.00	-20.63	Vertical
7440.00	18.80	17.93	36.73	54.00	17.27 And	Vertical
9920.00	19.04	23.83	42.87	54.00	-11.13	Vertical N
12400.00	* * hotek	Anbo.	hotek	54.00	And	Vertical
14880.00	* * *	sk Aupore	Aug	54.00	Vupo.	Vertical
4960.00	17.60	15.58	33.18	54.00	-20.82	Horizontal
7440.00	18.96	17.93	36.89	54.00	ek -17.110010	Horizontal
9920.00	18.12	23.83	41.95	54.00	-12.05	Horizontal
12400.00	* totek	Aupoles	Vur.	54.00	ipo, br.	Horizontal
14880 00	An*	hotel	Anbo	54 00	Aupore A	Horizontal

Remark:

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

