

FCC ID: 2AYGN-BK01 Report No.: Page 1 of 39 18220WC30191701

FCC Test Report

Dongguan Harmony Electronic Technology Co., **Applicant**

Ltd M

Hongyun Road, Shuibei Lndustrial Zone, Shipai **Address**

Town, Dongguan, Guangdong, China

Product Name Wireless earbuds

: Oct. 17, 2023 **Report Date**

Shenzhen Anbotek Con Anbotek



ce/Laboratory Limited









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TEST REPORT

Applicant : Dongguan Harmony Electronic Technology Co., Ltd

Manufacturer : Dongguan Harmony Electronic Technology Co., Ltd

Product Name : Wireless earbuds

Test Model No. : BK01

Reference Model No. : HL90, ET30, EV68

Trade Mark : N/A

Rating(s) Case Input: 5V= 320mA(with DC 3.7V, 320mAh battery inside)

Single Earphone Input: 5V-25mA(with DC 3.7V, 25mAh battery inside)

Test Standard(s) : 47 CFR Part 15.247

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

Date of Receipt:	Sept. 04, 2023
Date of Test:	Sept. 04, 2023 to Sept. 18, 2023
	Chores I Anbores Anbo
Anbore Anborek Anborek Anbo	Stella Zhu
Prepared By:	And And And
Anbotek Anbotek Anbotek Anbotek Ar	(Stella Zhu)
	Idward pan
Approved & Authorized Signer:	Aupotek Aupotek Aupot
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Revision History

	Report Version	Description	Issued Date		
	Anbore R00 potek Ant	Original Issue.	Oct. 17, 2023		
9,	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb		
10	or Anbotek Anbotek	Anbotek Anbotek Anbot	otek Anbotek Anbotek		





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1. General Information

1.1. Client Information

Applicant	: Dongguan Harmony Electronic Technology Co., Ltd
Address	Hongyun Road, Shuibei Lndustrial Zone, Shipai Town, Dongguan, Guangdong, China
Manufacturer	: Dongguan Harmony Electronic Technology Co., Ltd
Address	Hongyun Road, Shuibei Lndustrial Zone, Shipai Town, Dongguan, Guangdong, China
Factory	: Dongguan Harmony Electronic Technology Co., Ltd
Address	Hongyun Road, Shuibei Lndustrial Zone, Shipai Town, Dongguan, Guangdong, China

1.2. Description of Device (EUT)

~10		
Product Name	:	Wireless earbuds
Test Model No.	:	BK01 Anbotek Anbotek Anbotek Anbotek Anbotek
Reference Model No.	:	HL90, ET30, EV68 Note: All samples are the same except the model number, so we prepare "BK01" for test only.
Trade Mark	:	N/A Ando tek Anbotek Anbotek Anbotek Anbotek Anbotek
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 ote Anborek Anborek Anborek Anborek Anborek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK
Antenna Type	:	Ceramic Antenna
Antenna Gain(Peak)	:	2.78dBi
B		6 70 N N N N N N N N N N N N N N N N N N

Remark:

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







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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

horeit	YLLD III	otek.					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
A O OTON	2402	20	2422	40 orek	2442	60	2462
· 1 _{Anbore}	2403	× 21 100°	2423	41	2443	61	2463
tek 2 Anb	2404	22	otel ^k 2424 kn ^{b0}	42	2444	otek 62 Ant	2464
Nek-3	2405	23	2425	43	2445	10016 63	2465
4,	2406	^{nbo} 24	2426	44	2446	64	2466
Anbos 5	2407	25	2427	45	2447	65	2467
A 6	2408	26	2428	46	2448	66 5010	2468
Zupore	2409	27 nbote	2429	47 bot	2449	67	2469
iek 8 Anbo	2410	,ex 28 ,nt	2430	48	ote ^k 2450 Anbo	68	2470
hotek 9	100 2411 And	29	2431	49	2451	69 P	2471
10	2412	30	2432	Anbotto	2452	Anb 70	2472
11,ek	2413	Anbara 31	2433	51	2453	7.1 tok	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33 ^{nbott}	2435	k 53 _M bott	2455	73 %	2475
14 Anbo	2416	rek 34 And	2436	16 54 NO	2456	74	2476
otek 15 An	2417	, ote 35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	Anbored	2478
17°K	2419	And 37	2439	Anbore	2459	A177	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59 nbote	2461	ek - nbot	ek - Aupo,

1.5. Description of Test Modes

2	Pretest Modes	Descriptions
9	nnbotek TM1 ^{otek} Ando	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
	Anborek TM2 nborek	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
re ^y	TM3 And Andorek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
,/pc	TM4	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	Anbotek / Anbote	P
Conducted Emission at AC power line	Mode1,2	P ^{Anb}
Occupied Bandwidth	Mode1,2	PAN
Maximum Conducted Output Power	Mode1,2	upote P
Channel Separation	Mode3,4	Anb P tek
Number of Hopping Frequencies	Mode3,4	AP Stell
Dwell Time	Mode3,4	Punbo
Emissions in non-restricted frequency bands	Mode1,2,3,4	P Anb
Band edge emissions (Radiated)	Mode1,2	oboře P
Emissions in frequency bands (below 1GHz)	Mode1,2	Anbore P.ck
Emissions in frequency bands (above 1GHz)	Mode1,2	PLD
Note: P: Pass N: N/A not applicable	k Anbotek Anbotek	tek Anbore





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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.
- 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	2022-10-13	2023-10-12
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	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	MXG RF Vector Signal Generator	Agilent	N5182A	MY481806 56	2022-10-13	2023-10-12
2	Power Meter	Agilent	N1914A	MY500011 02	2022-10-26	2023-10-25
3	DC Power Supply	IVYTECH	IV3605	1804D360 510	2022-10-22	2023-10-21
4 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		Anbolek	Anbotek	Anboiek A.	Anbotek Anb
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Anbo	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2022-10-13	2023-10-12
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
o ^{₹©} 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aupotek b	abotek Ar
1715 5 EN	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2022-10-23	2023-10-22
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7 AC	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 ^{ek}	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	And





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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 2.78 dBi . It complies with the standard requirement.





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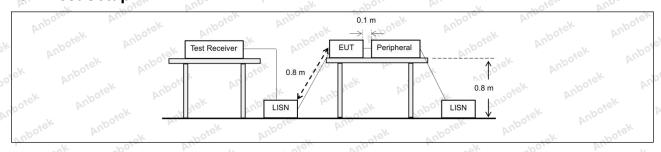
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Excep section, for an intentional radiator in public utility (AC) power line, the raback onto the AC power line on an band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage tha y frequency or frequencie exceed the limits in the fo	nected to the at is conducted s, within the ollowing table, as
upotek Aupon	Frequency of emission (MHz)	Conducted limit (dBµV)	L Latek
tek anboie.	Ant k potek Anbo.	Quasi-peak	Average
Tupo. H. Stek	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 tek nbote And	56. An	46
Annabote	5-30 And State A	·60	50 And
k Anbore An	*Decreases with the logarithm of the	ne frequency.	
Test Method:	ANSI C63.10-2020 section 6.2	botek Anbote	Aug
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		

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 Ion-Hoppin	00, N	EUT in co	Vupote,	smitting mod y transmittin	. ak

3.2. Test Setup





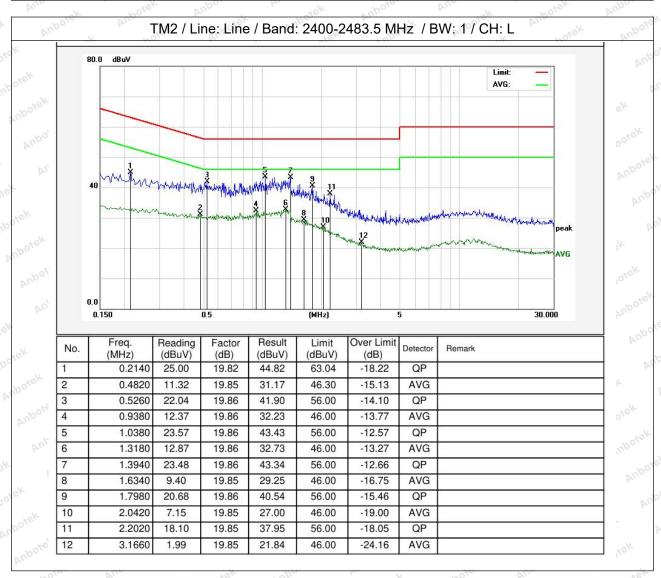
Hotline



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3.3. Test Data

Temperature: 24.4 °C Humidity: 65 % Atmospheric Pressure: 96 kPa



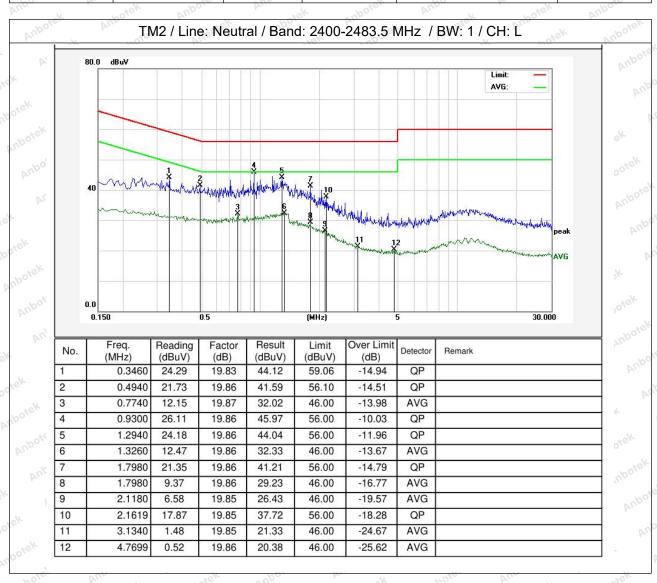






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Temperature: 24.4 °C Humidity: 65 % Atmospheric Pressure: 96 kPa



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: Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	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.
Anbotek Anbotek	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.
otek Aupotek Au	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
Anbotek Anbotek Anbotek Anbotek Anbotek	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
k Anbotek Anbotek Anbot	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

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-



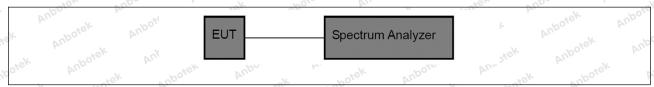




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2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.

4.2. Test Setup



4.3. Test Data

Temperature:	25.3 °C	, nbore	Humidity:	48 %	hotek	Atmospheric Pressure	e: x ⁶ 10:	2 kPa	Ī
	70.0		,	186.0			VO.		





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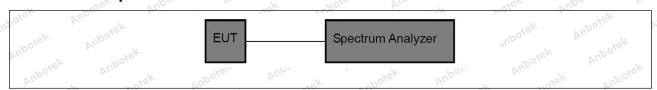
5. Maximum Conducted Output Power

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.
Procedure:	e) Detector function: Peak. 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.
Anbotek Anbotek Anbotek Anbotel	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:	Aug	Anboick	Aupo	*e\	abotek	Aupore, K
Test mode:	1: TX-GFSK (No hopping) with G 2: TX-π/4-DQPS (non-hopping) w	FSK modulation SK (Non-Hoppin	n. ng): Keep th	e EUT in	Spotel	Anbo	k hotel

5.2. Test Setup









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5.3. Test Data

T	25.2 00	I luma i alitum	40.0/	Atus a sub a sila Dua a a custi.	400 kD-	
Temperature:	25.3 C	Humidity:	48 %	Atmospheric Pressure:	102 KPa	





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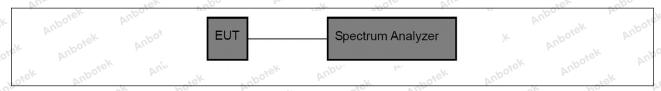
6. Channel Separation

india in its	1 700, W. A. 2046, W.D. 1 36K 700,
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
Anborek	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. 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

4	Operating Envir	onment:	Anbore. A	n'ek .	anboiek	Aupo,	hoiek.	Anboi
, ch	Test mode:	3: TX-GFSK (F with GFSK mo 4: TX-π/4-DQF (hopping) with	odulation,. PSK (Hopping): Keep the E		k - 20°	ek Aupo.	. O, p.,

6.2. Test Setup



6.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa
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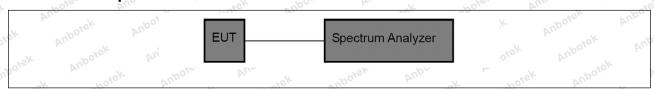
7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: 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
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

_3	Operating Envir	onment:	bur	Anbores	Ando	Anbotek	Anbort	k been
77.	Test mode:	with GFSK r 4: TX-π/4-D	(Hopping): Ke modulation,. QPSK (Hoppir ith π/4 DQPSk	ng): Keep the	EUT in cor	HO AND	'da 49.	otek o,

7.2. Test Setup



7.3. Test Data

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









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8. Dwell Time

inpos Aria	Thotak Augo K Mark Augore All sak abotek
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 7.8.4
Anbotek 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.
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: a) Span: Zero span, centered on a hopping channel. b) RBW shall be ≤ channel spacing and where possible RBW should be
	set >> 1 / T, where T is the expected transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to
	be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this. 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. e) Detector function: Peak. f) Trace: Clear-write, single sweep.
k Anbotek Anbo	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









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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.

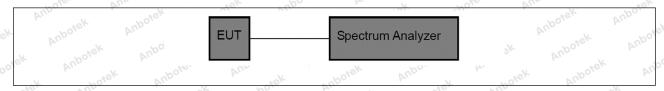
8.1. EUT Operation

Operating Environment:

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

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa	1/2
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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 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
	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 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.

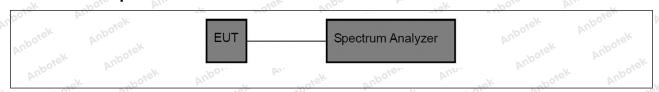
2: TX- π /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π /4 DQPSK modulation.

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

Test mode:



9.3. Test Data

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







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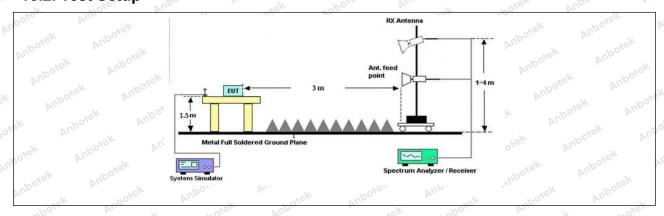
10. Band edge emissions (Radiated)

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 Wilson	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. p. ciek	0.009-0.490	2400/F(kHz)	300 Mbore
aborek Anbo	0.490-1.705	24000/F(kHz)	30 Lotek
atek anboter	1.705-30.0	30° , Albo	30
	30-88	100 **	3,ek nbore
T- Haboter And	88-216	150 **	3
Test Limit:	216-960	200 ***	3 botes And
	Above 960	500 Morek Ambo	3 rek ont
nbotek Anbotek 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 d hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.10 Andrew	Anboren And
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Aupoten Aup

10.1. EUT Operation

Operating Envi	ronment:	. hotek	Anboren	Aug.	sk apotek	Aupo.
Test mode:	1: TX-GFSK (No hopping) with GI 2: TX-π/4-DQPS (non-hopping) w	SK modulation K (Non-Hoppin	n. ig): Keep the	e EUT in co	poter And	ok botek

10.2. Test Setup





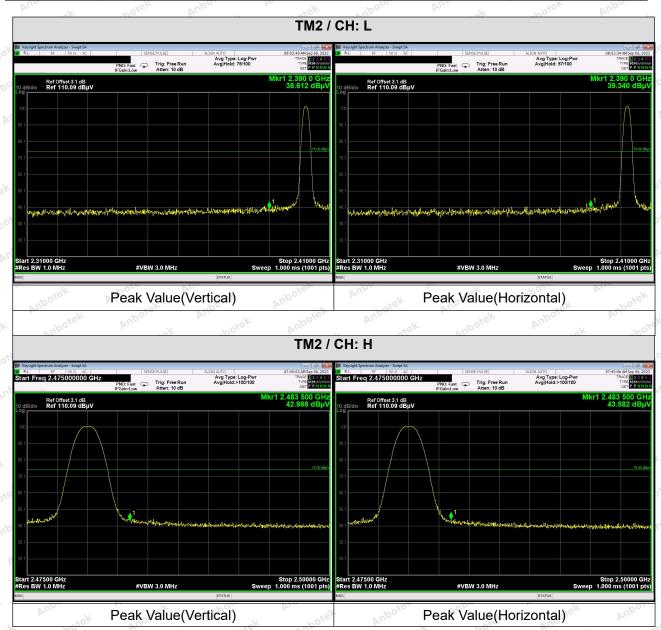




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10.3. Test Data

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









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Average:

100 - 100			5/4"	_ 100		- //-
Test Mode	Peak Value (dBuV/m)	DCCF	Average Value (dBuV/m)	Limit (dBuV/m)	Polarization	Verdict
TM2 / CH: L	38.612	-2.24	36.372	54.00	Vertical	Pass
TIVIZ / CH. L	39.340	-2.24	37.100	54.00	Horizontal	Pass
TM2 / CH: H	42.988	-2.26	40.726	54.00	Vertical	otel Pass
I WIZ / CH. H	43.582	-2.26	41.320	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
k Aupotek Aupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. A. otek	0.009-0.490	2400/F(kHz)	300 Mbore
nborek Anbo	0.490-1.705	24000/F(kHz)	30 Lotek
atek upoter	1.705-30.0	30° , Mark	30 400
	30-88	100 **	3,ek nbore
T who is And	88-216	150 **	3
Test Limit:	216-960	200 **	3 botes And
Aupo. W.	Above 960	500 Morek Ambo	3 rek ont
nbotek Anbotek Anbotek 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	Anbores And
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore Andrew	Aupoten Aup

11.1. EUT Operation

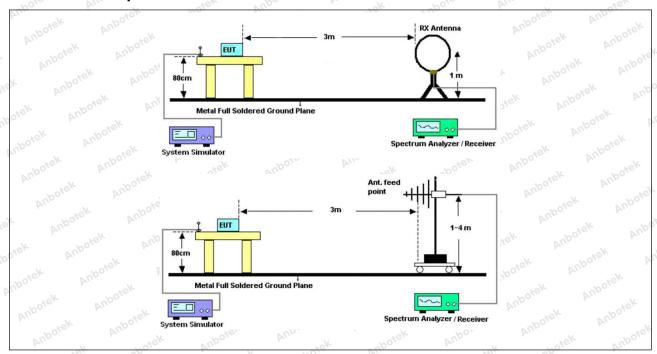
Operating Envi	ronment:	k hotek	Anborek	Augo	rek	anborek	Anbor	al-
Test mode:	1: TX-GFSK (No hopping) with G 2: TX-π/4-DQPS (non-hopping) w	FSK modulation SK (Non-Hoppir	n. ng): Keep the	e EUT in	nbote		, , Vo.	





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11.2. Test Setup



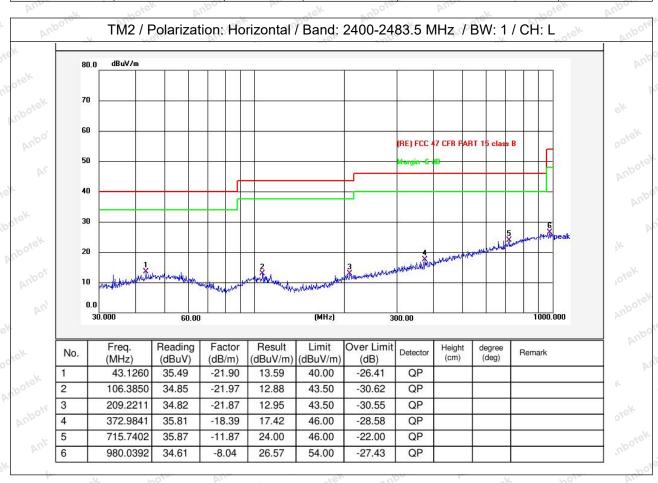




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11.3. Test Data

Temperature: 22.5 °C Humidity: 56.4 % Atmospheric Pressure: 102 kPa

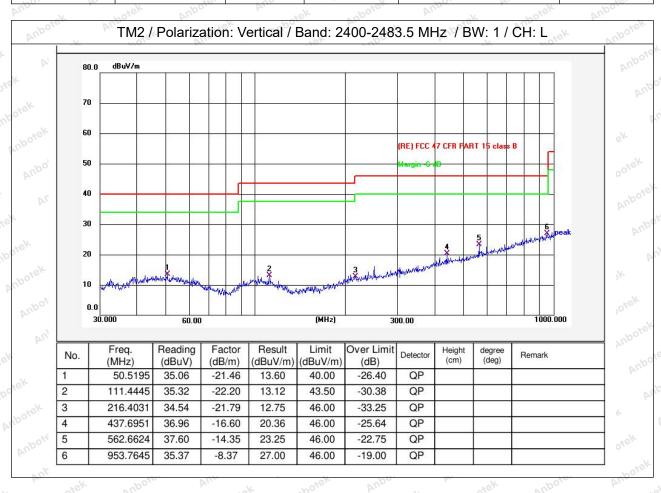






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Temperature: 22.5 °C Humidity: 56.4 % Atmospheric Pressure: 102 kPa



Note:Only record the worst data in the report.









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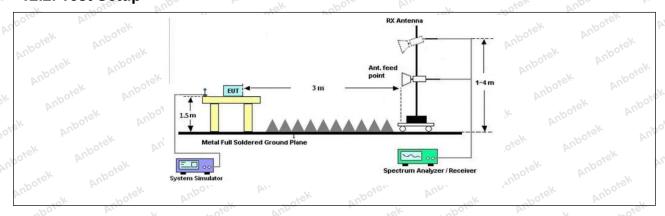
12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted background $f(x)$ with the radiated emission $f(x)$.	
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. h. otek	0.009-0.490	2400/F(kHz)	300 Mbore
aborek Anbo	0.490-1.705	24000/F(kHz)	30 Lotek
atek Anboter	1.705-30.0	30° , Albo	30
Anbo	30-88	100 **	3,ek nbore
T- 40 boten Anbo	88-216	150 **	3
Test Limit:	216-960	200 **	3 botes And
Anbo, Air	Above 960	500 Mark	3 yek and
nbotek Anbotek 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 d hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4	Anboren And
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore And Sotek	Anboten Anb

12.1. EUT Operation

Operating Envi	ronment:	. hotek	Anboren	Aup	sk apotek	Aupo.
Test mode:	1: TX-GFSK (No hopping) with GI 2: TX-π/4-DQPS (non-hopping) w	SK modulation K (Non-Hoppin	n. ig): Keep the	e EUT in co	poter And	ok botek

12.2. Test Setup









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12.3. Test Data

Temperature: 22.5 °C	Humidity: 56.4 %	Atmospheric Pressure:	102 kPa
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	HOTE ATT		THO (OIL :	F"	ok hore	VI
			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	27.64	15.27	42.91	74.00	-31.09	Vertical
7206.00	28.72	18.09	46.81	74.00	-27.19	Vertical
9608.00	29.71	23.76	53.47	74.00	-20.53	Vertical
12010.00	Aupole * Al	iek .	abotek Anb	74.00	otek Anbote	Vertical
14412.00	*Upo*sk	Anbo	hotek P	74.00	siek onk	Vertical
4804.00	27.98	15.27	43.25	74.00	-30.75	Horizontal
7206.00	29.07	18.09	47.16	74.00	-26.84	Horizontal
9608.00	28.44	23.76	52.20	74.00	-21.80	Horizontal
12010.00	otek * Vupo	-V	ick Vupote,	74.00	, nbotek	Horizontal
14412.00	woick* An	boye Vur	sek spo	74.00	K hore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	17.02	15.27	32.29	54.00	-21.71	Vertical
7206.00	17.75	18.09	35.84	54.00	-18.16	Vertical
9608.00	18.73	23.76	42.49	54.00	-11.51 ₀₀ 10 ¹⁰	Vertical
12010.00	NO4-8K	Aupoter, Au	19 °	54.00	- N 100	Vertical
14412.00	And *	hotek	Anbo. A.	54.00	ipote. Aug	Vertical
4804.00	16.33	15.27	31.60	54.00	-22.40	Horizontal
7206.00	18.13	18.09	36.22	54.00	-17.78	Horizontal
9608.00	17.75 bote	23.76	41.51	54.00	-12.49	Horizontal
12010.00	*** *	otek Anbor	-K 204	54.00	Aug. *ek	Horizontal
14412.00	4 ×	siek ont	Ofer And	54.00	ek Aupor	Horizontal



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				hotek	Anbor	rek
		•	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	27.66	15.42	43.08	74.00	-30.92	Vertical
7323.00	28.57	18.02	46.59	74.00	-27.41	Vertical
9764.00	28.72	23.80	52.52	74.00	-21.48	Vertical
12205.00	ek * nbotek	Anbo.	hotek	74.00	Aug	Vertical
14646.00	* * *	tek Aupote	Pur Vie	74.00	Vupo.	Vertical
4882.00	27.68	15.42	43.10	74.00	-30.90	Horizontal
7323.00	29.06	18.02	47.08	74.00	-26.92	Horizontal
9764.00	28.14	23.80	51.94	74.00	-22.06	Horizontal
12205.00	* otek	Anbore.	And	74.00	YUPO, UK	Horizontal
14646.00	P.T.	nbotek	Aupo.	74.00	Anboid	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	16.75	15.42	32.17	54.00	-21.83	Vertical
7323.00	17.85	18.02	35.87	54.00	-18.13	Vertical
9764.00	18.59	23.80	42.39	54.00	-11.61	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	16.24	15.42 nbo	31.66	54.00	-22.34	Horizontal
7323.00	17.69	18.02 An	35.71	54.00	-18.29	Horizontal
9764.00	18.26	23.80	42.06	54.00	11.94 And	Horizontal
12205.00	Anb*o*en	Anb rek	botek	54.00	-otek D	Horizontal
14646.00	* botek	Anbo	D. C. C.	54.00	And	Horizontal



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PUL	tek	"upo,	by.	-hote.	VUD.	atel ^k
		•	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	27.93	15.58	43.51	74.00	-30.49	Vertical
7440.00	28.58	17.93	46.51	74.00	-27.49	Vertical
9920.00	29.27	23.83	53.10	74.00	-20.90	Vertical
12400.00	* Siek	anbotes	Anb. "ek	74.00	Aupor	Vertical
14880.00	* And	iek "potel	Aupo	74.00	Aupole	Vertical
4960.00	o ^{tel} 27.75 And	15.58	43.33	74.00	-30.67	Horizontal
7440.00	29.09	17.93	47.02	74.00	-26.98	Horizontal
9920.00	28.82	23.83	52.65	74.00	-21.35	Horizonta
12400.00	VUD *	abotek	Aupo, k	74.00	Anbotes Ant	Horizonta
14880.00	W.po.	hotek	Anborek	74.00	anbotek	Horizonta
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatio
4960.00	17.87	15.58	33.45	54.00	-20.55	Vertical
7440.00	18.86	17.93	36.79	54.00	17.21 M	Vertical
9920.00	19.14	23.83	42.97	54.00	-11.03	Vertical
12400.00	k * ubotek	Anbo.	hotek	54.00	Pur	Vertical
14880.00	* * *	ak Anboro	Ans	54.00	Aupo	Vertical
4960.00	17.68	15.58 NO	33.26	54.00	-20.74	Horizonta
7440.00	19.06 An	17.93	36.99 M	54.00	-17.01	Horizonta
9920.00	18.16	23.83	41.99	54.00 Ann	-12.01	Horizonta
12400.00	* tek	Anbores	Aur	54.00	100 Vr	Horizonta
14880 00	An*	hotek	Anbo	54 00	Vupote V	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 -----

