

FCC ID: 2AV27-TX803441 182512C400312101 Page 1 of 39 Report No.:

FCC Test Report

Applicant Worldbrands S.L.

Corretger 127 Parque empresarial Tactica, **Address**

Paterna, Spain

Karaoke Speaker **Product Name**

: Jul. 19, 2024 **Report Date**









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TEST REPORT

Applicant : Worldbrands S.L.

Manufacturer : Worldbrands S.L.

Product Name : Karaoke Speaker

TX803441, MW-108K, MW-103K, TX803856, TX803865, TX803866,

Model No. : TX803867, TX803868, TX803869, TX803870, TX803871, TX803872,

TX803873, TX80387

Trade Mark : TRENDIX

Rating(s) : Input: 5V--- 1A (with DC 3.7V, 2400mAh 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.	Jul. 04, 2024
Date of Test:	Jul. 05, 2024 to Jul. 12, 2024
Anbotek Anbotek Anbotek Anbotek	Illa Liang
Prepared By:	te. Wunger Totak Wupo, W.
	(Ella Liang)
Anbotek Anbotek Anbotek Anbotek	Idward pan
Approved & Authorized Signer:	Potek Aupo, W. Wiek Aupoli
k boter Anbo	(Edward Pan)





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Revision History

	Report Version	Description	Issued Date
	Anbore R00 potek Ant	Original Issue.	Jul. 19, 2024
9	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Ant
/0	or Anbotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anboter





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1. General Information

1.1. Client Information

Applicant	:	Worldbrands S.L.
Address	:	Corretger 127 Parque empresarial Tactica, Paterna, Spain
Manufacturer	:	Worldbrands S.L.
Address	:	Corretger 127 Parque empresarial Tactica, Paterna, Spain
Factory	:	Worldbrands S.L.
Address	:	Corretger 127 Parque empresarial Tactica, Paterna, Spain

1.2. Description of Device (EUT)

Pr. V	-L-01	to All the second of the secon
Product Name	:	Karaoke Speaker
Model No.	:	TX803441, MW-108K, MW-103K, TX803856, TX803865, TX803866, TX803867, TX803868, TX803869, TX803870, TX803871, TX803872, TX803873, TX80387 (Note: All samples are the same except the model number and appearance color, so we prepare "TX803441" for test only.)
Trade Mark	:	TRENDIX Anborek Anborek Anborek Anborek
Test Power Supply	:	DC 5V from adapter input AC 120V/60Hz; DC 3.7V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A otek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	0.79 Anbotek Anbotek Anbotek Anbotek A
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-0.58dBi Anborek Anborek Anborek
Dama High		K MOL ALL

- (1) All of the RF specification are provided by customer.(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







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1.3. Auxiliary Equipment Used During Test

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

1.4. Operation channel list

Operation Band:

operation E	dila.		20, by.		700		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Anbolo	2402	20	2422	40	2442	60 tek	2462
Antorek	2403	210 rek	2423	41 otek	2443	61	2463
2,nbotes	2404	22 _{mb} ote	2424	42	2444	62	2464
ek 3 Anbo	2405	tek 23 ant	2425	43	2445 M	63	2465
botek 4 Ar	2406	24	2426	44	2446	64	2466
5°5	2407	25	2427	45	2447	65	2467
6 tek	2408	26	2428	46	2448	66	2468
7,bořek	2409	27 00 tel	2429	47	2449	67 ¹⁰⁰ 100	2469
ek 8 mbo'	2410	28	2430	48	2450	68 Mario	2470
otek 9	2411 M	29	2431	49	2451	o ^{tek} 69 N	2471
10	2412	30	2432	50	2452	70	2472
11ek	2413	Anbasa 31	2433	An 51	2453	71°	2473
12 rek	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53 nbon	2455	⁴ 73 Anbo	2475
14	2416	34	2436	otek 54 Anb	2456	otek 74 An	2476
15	2417	35	2437	nbote 55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
Anbara 17	2419	37	2439	57 tek	2459	77 orek	2479
18	2420	38	2440	58,00°10	2460	78 no	2480
19	2421	39 Mapo	2441	16k 59 May	2461	otek - vul	otek - Anbr
19	2421	39 Mupo.	2441	tek 59 Aup	2461	orek - Ant	otek -



Hotline



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1.5. Description of Test Modes

Pretest Modes	Descriptions
Anborek TM1nbores An	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2 Anbotek	Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation.
otek Anbortek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
Inbotes Anbote	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Anborek TM5 potek Ank	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
Anbotek TM6 Anbote	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz stek Anbotek
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

- AU		
Test Items	Test Modes	Status
Antenna requirement	abotek / Anboten	And Potek
Conducted Emission at AC power line	Mode1,2,3	P
Occupied Bandwidth	Mode1,2,3	P P
Maximum Conducted Output Power	Mode1,2,3	P
Channel Separation	Mode4,5,6	Tupo. B
Number of Hopping Frequencies	Mode4,5,6	Anbo P
Dwell Time	Mode4,5,6	PP P
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	P _{VUE}
Band edge emissions (Radiated)	Mode1,2,3	Pu Pu
Emissions in frequency bands (below 1GHz)	Mode1,2,3	upore P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	Anbo, Prek
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anbore

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
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
An3ote	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
4nb	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03



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	edge emissions (Ra sions in frequency ba		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
nbole 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Andotek	Aupolok
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Emis	Emissions in frequency bands (below 1GHz)									
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				
Antel	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				







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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 PCB antenna which permanently attached, and the best case gain of the antenna is -0.58dBi . It complies with the standard requirement.





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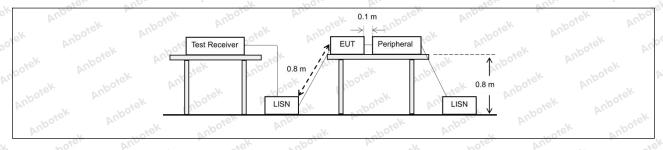
3. Conducted Emission at AC power line

- av	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Sr. "Up.	-K NO.
Test Requirement:	Refer to 47 CFR 15.207(a), Exce section, for an intentional radiator public utility (AC) power line, the back onto the AC power line on a band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be cor radio frequency voltage tha ny frequency or frequencie of exceed the limits in the f	nnected to the at is conducted es, within the following table, as
boick Anbore	Frequency of emission (MHz)	Conducted limit (dBµV)	All
Tur apolek	Anbo W Motek Anbore	Quasi-peak	Average
Auport All	0.15-0.5	66 to 56*	56 to 46*
Test Limit:	0.5-5 AND	56 Notek AT	46
And above	5-30 And	60	50 ten And
k Aupon k Air	*Decreases with the logarithm of	the frequency.	bi.
Test Method:	ANSI C63.10-2020 section 6.2	Anboiek Anboies	Ann
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un		

3.1. EUT Operation

Operating Envir	ronment:	Aupo.	hotek	Vupose.	And	nboick	Vupo.
Test mode:	hopping) w 2: TX-π/4-[(non-hopping) 3: TX-8DPS	ith GFSK modules $^{\circ}$ OQPSK (Norng) with $\pi/4$	odulation. n-Hopping): K DQPSK mod oping): Keep	eep the EU ulation.	ontinuously trans T in continuousl continuously trai	y transmitting	g mode

3.2. Test Setup





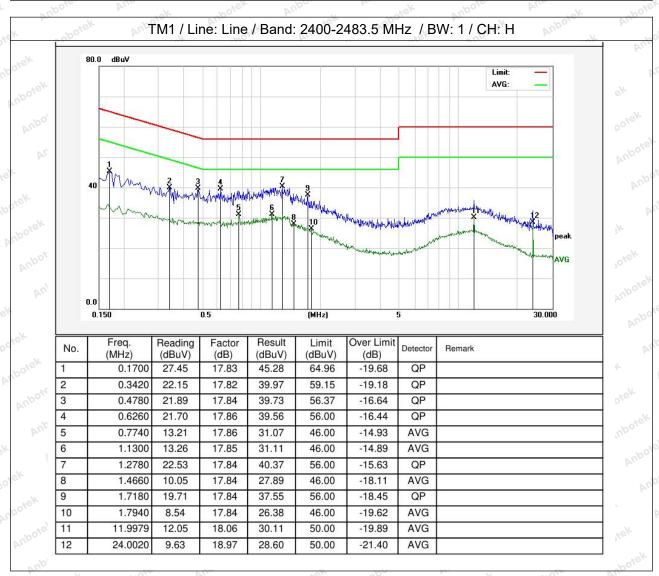
Hotline



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3.3. Test Data

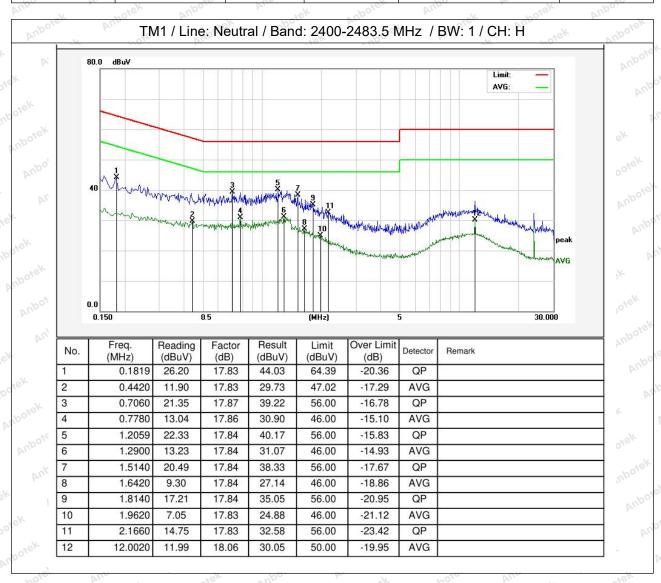
Temperature:	25.5 °C	Humidity:	47 %	hotel	Atmospheric Pressure: 101 kPa	
- V	~0.	2/1	76.	200	· K 20,	





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Temperature: 25.5 °C Humidity: 47 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.







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4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
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
ek Anbotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equa 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
otek Anbotek Anbe	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.
Procedure:	 d) Step a) through step c) might require iteration to adjust within the specified range. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
upotek Aupotek	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.
Anbotek Anbotek	The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99%
rek Anbotek An	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

4.1. EUT Operation

Operating Envir	onment:	VII.	Aupoter	Anbe	botek	Auporg	Air.
Test mode:	1: TX-GFSK	(Non-Hoppin	g): Keep the	EUT in cont	inuously trans	smitting mode	e (non-







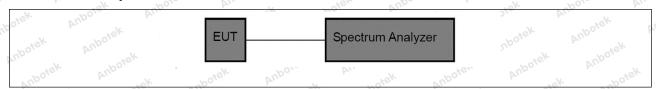
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hopping) with GFSK modulation.

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

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

4.2. Test Setup



4.3. Test Data

Te	emperature:	24.6 °C	Humidity:	58 %	Atmospheric Pressure:	101 kPa	O
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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: ex	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 Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek 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.
Anbotek Anbotek	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.
ek 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:	Anbore	Pur Polek	Anborek	Aup	abotek
Test mode:	1: TX-GFSK (No hopping) with GF 2: TX-π/4-DQPS (non-hopping) wi 3: TX-8DPSK (No hopping) with 8D	SK modulation K (Non-Hoppir th π/4 DQPSK on-Hopping): k	n. ng): Keep the E modulation. Keep the EUT in	UT in contin	uously transm	itting mode

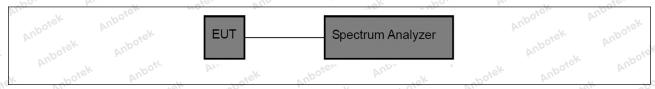






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5.2. Test Setup



5.3. Test Data

3-1	5/4	V	10070	VII.	700
Temperature:	24.6 °C	Humidity:	58 %	Atmospheric Pressure:	│ 101 kPa
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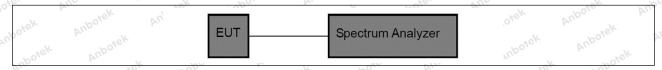
6. Channel Separation

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	ronment: Anbore Anbore Anbore Anborek Anborek
Test mode:	 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with π/4 DQPSK modulation. 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

6.2. Test Setup



6.3. Test Data

Temperature: 24.6 °C Humidity: 58 % Atmospheric Pressure: 101 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 Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1)(ii 2483.5 MHz band shall use at le occupancy on any channel shall period of 0.4 seconds multiplied employed. Frequency hopping stransmissions on a particular house transmissions are used.	east 15 channe Il not be greate I by the numbe systems may a	els. The aver than 0.4 ser of hoppin twoid or sup	erage time e seconds wit ig channels opress	of hin a
Test Method:	ANSI C63.10-2020, section 7.8 KDB 558074 D01 15.247 Meas		r02	^{vupo} iek	Anboick
Anbotek	The EUT shall have its hopping spectrum analyzer settings: a) Span: The frequency band of channels the device supports, it range of operation across multiple clearly seen. b) RBW: To identify clearly the if 30% of the channel spacing or if concept to the channel space to stabilize. It might prove necessary to breat all of the hopping frequencies. Or if the channel space to th	f operation. De t could be nece ple spans, to a ndividual chan the 20 dB band ed (auto) time. ak the span up Compliance of ned for the nui	pending or essary to di llow the ind nels, set th dwidth, which into subra an EUT with mber of hop	n the number vide the free dividual character to large the series of the	quency nnels to ess than naller. ow clearly opriate

7.1. EUT Operation

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

7.2. Test Setup

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nbo. A.	y, ok hole.
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7.3. Test Data

Temperature: 24.6 °C Humidity	/: 58 %	Atmospheric Pressure: 101 kPa
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8. Dwell Time

Aupor Ali	- Shotek	Anbe	York	Pupo,	DI	Poles.
Test Requirement:	47 CFR 15.2	247(a)(1)(iii)	Anba	k spojek	Aupor	W. Otek
Test Limit:	2483.5 MHz occupancy of period of 0.4 employed. F	band shall on any chan seconds m requency h ns on a parti	use at least nel shall not ultiplied by tl opping syste	quency hoppir 15 channels. T be greater than ne number of h ms may avoid g frequency pr	he average ting 0.4 seconds nopping chanror suppress	ne of within a nels
Test Method:	ANSI C63.1 KDB 558074			ance v05r02	k Anborek	Anborek
hbotek Anbotek Anbotek	transmission a single tran transmission	n to the end ismission pe n. If the devi is measured	of the last tra er hop then th ce has a mul	is the time fro ansmission for ne dwell time is tiple transmiss t of the first tra	that hop. If the the the thick the t	e device has of that then the
	over an obsidetermine the measure bo	ervation per ne time of oo th the dwell	iod specified ccupancy the	ne that the devine the regulator spectrum ana and the numb given period.	ory requireme lyzer will be c	nt. To onfigured to
Anborek Anborek Anborek Anborek Anborek Procedure:	requirement number of c the number based on the dwell times for 1, 3 or 5	s shall be m hannels ena of channels e minimum per channel time slots) t	nade with the abled. If the of than complianumber of ch (example Bl hen measure	tion enabled. O minimum and well time per cance with the re annels. If the cannels device ements can be of channels.	with the maxi channel does equirements r device suppor s can dwell or	mum not vary with nay be ts different n a channel
	Use the follo	owing specti	um analyzer	settings to def	termine the dv	vell time per
	a) Span: Ze b) RBW sha	ll be ≤ chan	nel spacing a	opping channe and where pos transmission t	sible RBW sh	ould be
	c) Sweep tir last transmis	ne: Set so the	nat the start on the hop are clea	of the first trans arly captured. S	smission and Setting the sw	eep time to
	1/hopping ra d) Use a vid the transmis	ate) should a eo trigger, v ssion is clea	achieve this. where possiblerly observed.	eriod per chan e with a trigge The trigger leven the system	r delay, so tha vel might need	t the start of adjustment
	channel. e) Detector f) Trace: Cle	function: Pe ear-write, sin	ak. gle sweep.	rst transmissio	otek Yupo	iek Vupo,









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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:

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

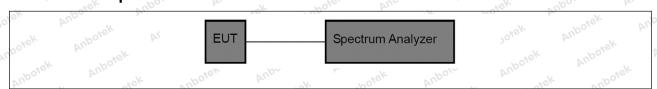
with GFSK modulation

Test mode:

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

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

8.2. Test Setup



8.3. Test Data

	Temperature:	24.6 °C	Humidity:	58 %	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
nbotek Anbotek Anbotek Anbotek Anbotek Anbote Anbotek Anbote Anbotek Anbote	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: over Anborek	The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.
Anbotek	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.

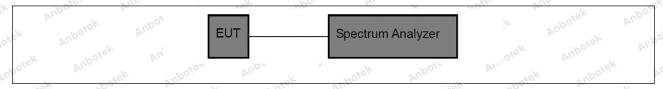
9.1. EUT Operation

Operating Environment:

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

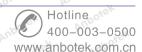
9.2. Test Setup

Test mode:



9.3. Test Data

Temperature: 24.6 °C Humidity: 58 % Atmospheric Pressure: 101 kPa







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10. Band edge emissions (Radiated)

700. WK	hofe And	rek upo. k.	-k bole			
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)			
	0.009-0.490	2400/F(kHz)	300 0000			
shorek Anbo	0.490-1.705	24000/F(kHz)	30 arek			
	1.705-30.0	30	30 AM			
	30-88	100 **	3 ek			
	88-216	150 **	3			
	216-960	200 **	3 boten And			
	Above 960	500 Mario Mario	3 301			
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	** 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.					
Pupo, b	10° No.	y potek Pupo,	by,			
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		** Aupo,			
Procedure:	ANSI C63.10-2020 section	6.10.5.2 Ant	or All hotel			

10.1. EUT Operation

Operating Envir	onment:
Test mode:	 TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

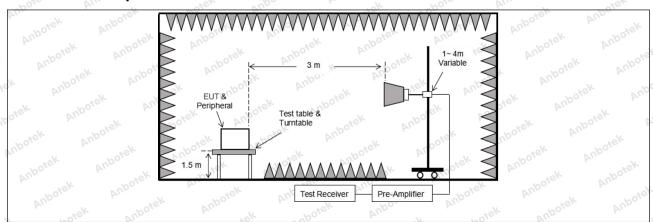






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10.2. Test Setup



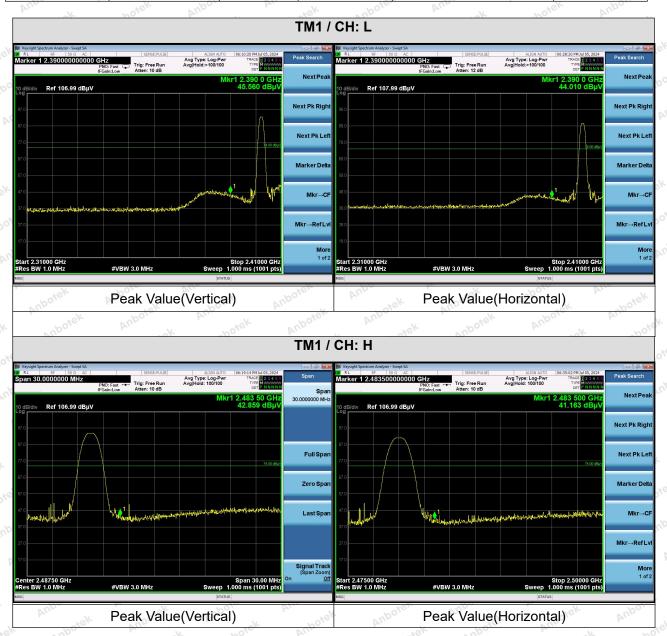




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10.3. Test Data

Temperature: 24.6 °C Humidity: 58 % Atmospheric Pressure: 101 kPa



Remark

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 2. 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)

70po, k.	bore And	rek vopo, k.	-k -poie.
Test Requirement:	restricted bands, as defined	In addition, radiated emissions I in § 15.205(a), must also comp cified in § 15.209(a)(see § 15.20	ly with the
otek Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o tek	0.009-0.490	2400/F(kHz)	300 0000
shorek Anbo	0.490-1.705	24000/F(kHz)	30 arek
And the shotely	1.705-30.0	30 000	30
Aupore Air	30-88	100 **	3.ek abore
hotek Anbo	88-216	150 **	3
Aug 1046	216-960	200 **	3 botel And
k Anbor An	Above 960	500 hotels Antoon	3 John John
Test Limit: orek Andorek Andorek Andorek Andorek Andorek Andorek Andorek Andorek Andorek	intentional radiators operatifrequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-p90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissing under this section shall not be z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt § 15.231 and 15.241. The tighter limit applies at the benthe above table are based on beak detector except for the frequibove 1000 MHz. Radiated emist don measurements employing	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		k Aupole
Procedure:	ANSI C63.10-2020 section	6.6.4 Ant	or All

11.1. EUT Operation

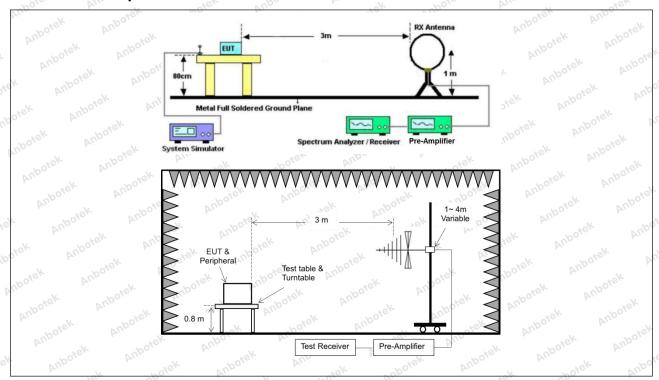
Operating Envir	onment:
Test mode:	 TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.





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11.2. Test Setup





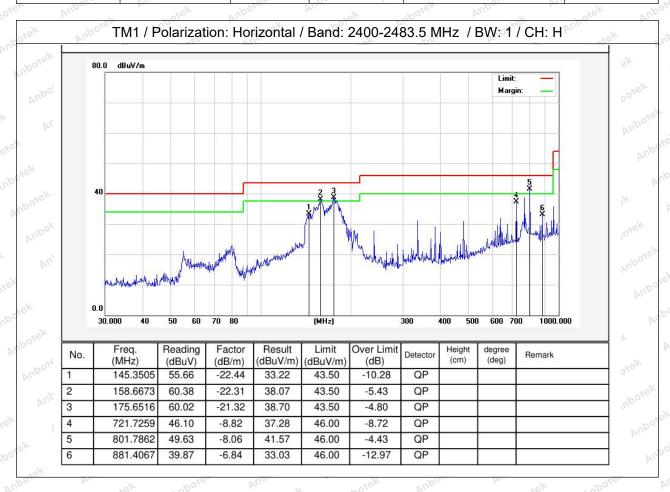


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11.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

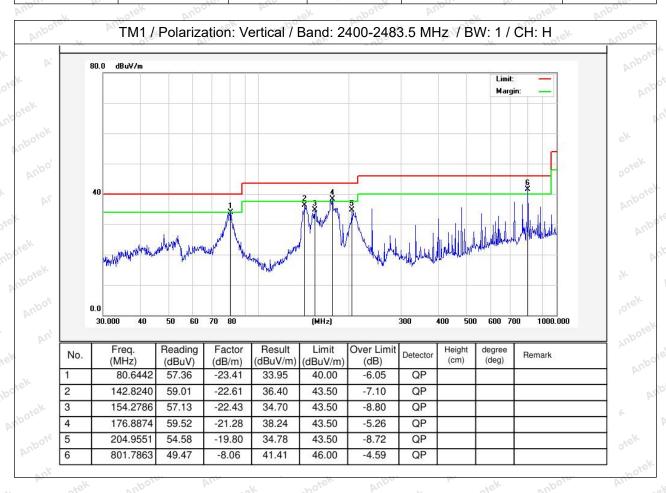
	Temperature:	24.6 °C	DUPO	Humidity:	58 %	Atmos	pheric Pres	sure:	101 kPa
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Temperature: 24.6 °C Humidity: 58 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.









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12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ions which fall in the restricted becomply with the radiated emission (5(c)).	
tek Vupotek Vupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
potek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
	1.705-30.0 30-88	30 100 **	30
	88-216 216-960 Above 960	150 ** 200 ** 500	3 And And
	However, operation within	Hz, 76-88 MHz, 174-216 MHz or these frequency bands is permi	
	The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and these three bands are bas	§§ 15.231 and 15.241. e, the tighter limit applies at the in the above table are based or peak detector except for the fre above 1000 MHz. Radiated emited on measurements employing	n measurements quency bands 9– ssion limits in
Anborek	In the emission table abov The emission limits shown employing a CISPR quasi- 90 kHz, 110–490 kHz and	e, the tighter limit applies at the in the above table are based or peak detector except for the fre above 1000 MHz. Radiated emied on measurements employing 16.6.4	n measurements quency bands 9– ssion limits in

12.1. EUT Operation

Operating Envi	ronment: And
Test mode:	 TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4 DQPSK modulation. TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

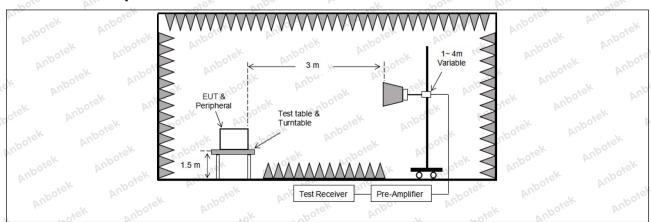






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12.2. Test Setup







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12.3. Test Data

Temperature: 23.4 °C	Humidity: 57 %	Atmospheric Pressure:	101 kPa
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And	hotek Anb), h,	siek subori	Yu.	ok hotek	Anbo.
			TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.36	15.27	43.63	74.00	-30.37	Vertical
7206.00	29.32	18.09	47.41	74.00	-26.59	Vertical
9608.00	30.55	23.76	54.31	74.00	-19.69	Vertical
12010.00	Aupole * Al	iek .	abotek Anb	74.00	otek Anbott	Vertical
14412.00	VUPO*SK	Anbo	hotek b	74.00	siek sok	Vertical
4804.00	28.64	15.27	43.91	74.00	-30.09	Horizontal
7206.00	29.93	18.09	48.02	74.00	-25.98	Horizontal
9608.00	28.75	23.76	52.51	74.00	-21.49	Horizontal
12010.00	otek * Anbo	2/c 1/20	iek Aupote	74.00	k nbotek	Horizontal
14412.00	hotek* An	DOJE VILL	stek onbo	74.00	ok hotel	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	17.74	15.27	33.01	54.00	-20.99	Vertical
7206.00	18.35	18.09	36.44	54.00	-17.56	Vertical
9608.00	19.57	23.76	43.33	54.00	-10.67	Vertical
12010.00	to Otok	Anbote. An	ek	54.00	- No Pro-	Vertical
14412.00	And *	anbotek	Aupo. K	54.00	bote. And	Vertical
4804.00	16.99	15.27	32.26	54.00	-21.74	Horizontal
7206.00	18.99	18.09	37.08	54.00	-16.92	Horizontal
9608.00	18.06	23.76	41.82	54.00	-12.18	Horizontal
12010.00	tek *	otek Aupor	-K 20,	54.00	Yun "GK	Horizontal
14412.00	V/00, *	sorek Ant	Oto Aug	54.00	ek Anbo	Horizontal





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ek Aupor				hotek	Aupor	*ek
			TM1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	28.38	15.42	43.80	74.00	-30.20	Vertical
7323.00	29.17	18.02	47.19	74.00	-26.81	Vertical
9764.00	29.56	23.80	53.36	74.00	-20.64	Vertical
12205.00	ek * nbotek	Anbor	, worek	74.00	And	Vertical
14646.00	* **	ick Aupore	Pur Vie	74.00	Aupo	Vertical
4882.00	28.34	15.42	43.76	74.00	-30.24	Horizontal
7323.00	29.92	18.02	47.94	74.00	-26.06	Horizontal
9764.00	28.45	23.80	52.25	74.00	-21.75	Horizontal
12205.00	* otek	Anboie	And	74.00	YUPO, OK	Horizontal
14646.00	A.T. Otek	Anbotek	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	17.47	15.42	32.89	54.00	-21.11	Vertical
7323.00	18.45	18.02	36.47	54.00	-17.53	Vertical
9764.00	19.43	23.80	43.23	54.00	-10.77	Vertical
12205.00	k *upote	N Diek	anbotek	54.00	aboiek	Vertical
14646.00	otek * Anboti	And	sk spojek	54.00	p	Vertical
4882.00	16.90	15.42 15.42	32.32	54.00	-21.68	Horizontal
7323.00	18.55	18.02	36.57	54.00	-17.43	Horizontal
9764.00	18.57	23.80	42.37	54.00	11.63 And	Horizontal
12205.00	Anbotek	Anb.	abotek	54.00	"otek D	Horizontal
14646.00	* boick	Anbo	Br. Olek	54.00	Vunn Pur	Horizontal





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		1	ГМ1 / СН: Н			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	28.65	15.58	44.23	74.00	29.77 nb ^o	Vertical
7440.00	29.18	17.93	47.11	74.00	-26.89	Vertical
9920.00	30.11	23.83	53.94	74.00	-20.06	Vertical
12400.00	* Otek	Aupoleit	AUD "SK	74.00	Anborr	Vertical
14880.00	* And	iek abojel	Aupor	74.00	Anbote.	Vertical
4960.00	o ^{vel*} 28.41 M	15.58	43.99	74.00	-30.01	Horizontal
7440.00	29.95	17.93	47.88	74.00	-26.12	Horizontal
9920.00	29.13	23.83	52.96	74.00	-21.04	Horizontal
12400.00	AUD *	abotek	Aupor	74.00	Anbores An	Horizontal
14880.00	Vipo,	hotek	Anborek	74.00	abotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.59	15.58	34.17	54.00	-19.83	Vertical
7440.00	19.46	17.93	37.39	54.00	16.61 And	Vertical
9920.00	19.98	23.83	43.81	54.00	-10.19	Vertical N
12400.00	k * Josek	Vupo,	botek	54.00	Aug	Vertical
14880.00	* * *	k Aupole	And	54.00	Vupo,	Vertical
4960.00	18.34	15.58 NO	33.92	54.00	-20.08	Horizontal
7440.00	19.92	17.93	otek 37.85 kn	54.00	-16.15	Horizontal
9920.00	18.47	23.83	42.30	54.00 And	±11.70	Horizontal
12400.00	* totek	Anborer	Aur. Olek	54.00	100. br.	Horizontal
14880.00	An*	abotek	Anbo.	54.00	Aupore	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 -----

