

Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 1 of 33

FCC Test Report

Applicant : MKETech Electronics

Address 2000 South Grove Avenue, Suite 109, Ontario,

California, United States

Product Name : WIRELESS KEYBOARD

Report Date : May 20, 2024

Shenzhen Anbotek Con Anbotek



ce Laboratory Limited









Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 2 of 33

Contents

1,000110	ral Information	224		<u>.</u>	V22		Vu.	······································	6
1.1	Client Information	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	upo _{jer}	Anb	, ex	upotek	Aupo,	O46/4	
1.3	Auxiliary Equipment Use	d During To	est						100
14	Operation channel list								
1.5. 1.6	Description of Test Mode	es tv	An	Of Ch			10010K	Auporo	P
1.7	Measurement Uncertaint Test Summary	.y	,ek	, ybotek	Anbo		Hote ^k	AUpo ₄	8
1.8	. Description of Test Facili . Disclaimer	ty		n abotek		340.	An Lote	,	ater .
1.1	0. Test Equipment List	otek Ar			,ek	^U POAST.		,,e\	
2. Anten	O. Test Equipment List nna requirement	,botek	Anbore	PU.	uojek	Aupotek	Vup,		12
atel 2.1.	Conclusion	n,	Anbore	P.L.	iek D	, anboi	ek P	nbo'.	12
3. Cond	Conclusion	ver line	Anb	oter	Aup. rek		potek	Aupore	بم 13
.3/1	EUT Operation	Aug.	ek .	nbotek	Aupo	wh	abotek	Anbore	13
3.2	Test Setup	And		Nootek.	odn4		K	do ₂₃	13
3.3	Test Data	yek ne	00'.	Pr.,	ek Ar	baie	2004	iek .	
4. Occu	pied Bandwidth		Vipole.	Arra	-0 ⁴ E/c	Aupotek.	⁰ 024	· · · · · ·	14
4.1.	EUT Operation		····Vipo _{te}		o tok	bot	3/r 2/r	100, ok	15
4.2	Test Selup Test Data		anb	, e.r	rupi		o ^{telt}	Aupore	15
5. Maxir	num Conducted Output P	ower	3/4	obotek	Anbo,	ok Vi.	botek	Anbote	16
Anbore 5.1	num Conducted Output P	Anbe	rek r	aborek	Anbor		VII.	Anb	, tek 16
5.2	Test Setun								-0101
5.3	Test Data							·op	, IC
6. Chan	Yek .	/po/92	Mpo,	P.	otek	Anbotek	- Pupo,	er V	16
6.1	nel Separation	holon.	Pupo,	An ^t	otek	Anbotek Anbotek	k bupo,	potek K	16 17
0.1.	nel Separation	Aupolek		ke _k Vu _p	Yupotek otek	Anbotek Anbote	0402 1240 1240 1240	Popotek Potek	17
6.2	Test Datanel Separation	Anboney Anboney	Arten d'el		orek Moorek	Anbotek Anbote Anbote	oral Yang	hapous _k botsk	16 17 17
6.3 7 Numh	er of Honoing Frequencie	Aupote V		potek	Anbor		Man Jak	hotek Wapotek	16 17 17
6.3 7 Numh	er of Honoing Frequencie	Aupote V		potek	Anbor		Man Jak	hotek Wapotek	16 17 17
6.3 7 Numh	er of Honoing Frequencie	Aupote V		hotek	Anbor		Man Jak	hotek Wapotek	16 17 17
6.3 7 Numh	er of Honoing Frequencie	Aupote V		hotek	Anbor		Man Jak	hotek Wapotek	16 17 17
6.3 7 Numh	er of Honoing Frequencie	Aupote V		hotek	Anbor		Man Jak	hotek Wapotek	16 17 17
6.3 7 Numh	er of Honoing Frequencie	Aupote V		hotek	Anbor		Man Jak	hotek Wapotek	16 17 17
6.3 7 Numh	er of Honoing Frequencie	Aupote V		hotek	Anbor		Man Jak	hotek Wapotek	16 17 17
6.3 7 Numh	er of Honoing Frequencie	Aupote V		hotek	Anbor		Man Jak	hotek Wapotek	16 17 17
6.3 7 Numh	er of Honoing Frequencie	Aupote V		hotek	Anbor		Man Jak	hotek Wapotek	16 17 17
6.3 7 Numh	nel Separation EUT Operation Test Setup Test Data Der of Hopping Frequencie EUT Operation Test Setup Test Data Time EUT Operation Test Setup Test Setup EUT Operation Test Setup Test Setup Test Setup Test Data Test Data Test Data Test Data Test Setup Test Setup Test Setup Test Setup Test Setup Test Setup Test Setup	Aupote V		hotek	Anbor		Man Jak	hotek Wapotek	16 17 17







Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG	Page 3 of 33
10. Band edge emissions (Radiated)	23
10.1. EUT Operation	23 23 24
11. Emissions in frequency bands (below 1GHz)	25
11.1. EUT Operation	25 26 27
12. Emissions in frequency bands (above 1GHz)	29
12.1. EUT Operation	29 29 30
APPENDIX I TEST SETUP PHOTOGRAPHAPPENDIX II EXTERNAL PHOTOGRAPH	33





Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 4 of 33

TEST REPORT

Applicant : MKETech Electronics

Manufacturer : Dongguan ShangGui Electronics Co.,Ltd.

Product Name : WIRELESS KEYBOARD

Test Model No. : MKE 947

Reference Model No. : K947RG

Trade Mark : N/A

Rating(s) : Input: DC 3V by "AAA"*2 battery

Test Standard(s) 47 CFR Part 15.247 ANSI C63.10-2020

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

Date of Receipt:	Dec. 05, 2023
Date of Test:	Dec. 05, 2023 to Dec. 21, 2023
Anbotek Anbotek Anbotek Anbotek Anbotek	Ella Liang
Prepared By:	W Ande K Sek Anbore An
onbotek Anbotek Anbotek Anbotek Anb	(Ella Liang)
	Idward pan
Approved & Authorized Signer:	botek Anbor All otek Anbor
	(Edward Pan)

Hotline

www.anbotek.com.cn

400-003-0500





Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 5 of 33

Revision History

	Report Version	Report Version Description		
	Anbore R00 potek Ant	Original Issue.	May 20, 2024	
9,	Anbotek Anbotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Ant	
10	ore Ambotek Anbotek	Anbotek Anbotek Anbot	tek Anbotek Anboter	





Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 6 of 33

1. General Information

1.1. Client Information

Applicant	:	MKETech Electronics
Address	:	2000 South Grove Avenue, Suite 109, Ontario, California, United States
Manufacturer	:	Dongguan ShangGui Electronics Co.,Ltd.
Address	:	Room 101,No.7, Yincheng 7nd Road.,Xiabian Village, Chang'an Town,Dongguan City, GuangDong Province, China
Factory	:	Dongguan ShangGui Electronics Co.,Ltd.
Address	:	Room 101,No.7, Yincheng 7nd Road.,Xiabian Village, Chang'an Town,Dongguan City, GuangDong Province, China

1.2. Description of Device (EUT)

Product Name	:	WIRELESS KEYBOARD
Test Model No.	:	MKE 947
Reference Model No.	:	K947RG (Note: All samples are the same except the model number, so we prepare "MKE 947" for test only.)
Trade Mark	:	N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbo
Test Power Supply	:	DC 3V battery
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A stek Anbotek Anbotek Anbotek
RF Specification	•	
Operation Frequency	:	2402.65-2480.65MHz
Number of Channel	:	116 Anbore An hotek Anborek Anborek An
Modulation Type	:	GFSK Anborek Anborek Anborek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	2.03dBi Anbotek Anbotek Anbotek Anbotek
Domark:		stell and k hole Amb

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.







Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 7 of 33

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.	
Anbores / Anbores	Ant stek/ subotek	Anbor A All botek	Anboret And	

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)		
no no	2402.65	Aupoter 8 Aupo	2441.65		
Ando	2407.65	Anboten An	2445.65		
And 2 tok	2414.65	_A n10	2453.65		
And Sotek	2419.65	ek 1100're.	2459.65		
4 hotek	2422.65	potek 12Anbotes	2463.65		
both 5 And	2426.65	Anbotek 13 Anbote	2466.65		
Anbor 6	2436.65	nbote14 Ant	2473.65		
Anbor 7	2439.65	15 ^k	2480.65		

1.5. Description of Test Modes

d C	Pretest M	odes	Descriptions	
Wpo.	TM1	k Anbore	Keep the EUT in continuously transmitting mode (non-hopping).	
DUL	TM2	otek Anb	Keep the EUT in continuously transmitting mode.	7

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)	N 3.53dB And Otek Moorek Andore A
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.









Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 8 of 33

1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	Anbotek / Anboten	And Poick
Conducted Emission at AC power line	Anborek / Anbores	N N
Occupied Bandwidth	Mode1	P P
Maximum Conducted Output Power	Mode1	P
Channel Separation	Mode2	hpo. Pk
Number of Hopping Frequencies	Mode2	Anbo Priek
Dwell Time	Mode2	P P
Emissions in non-restricted frequency bands	Mode1,2	Pants
Band edge emissions (Radiated)	Mode1	P An
Emissions in frequency bands (below 1GHz)	Mode1	upor P
Emissions in frequency bands (above 1GHz)	Mode1	Anbote P.ek
Note: P: Pass N: N/A not applicable	Anbotek Anbotek	Anbore





Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 9 of 33

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.





Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 10 of 33

1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupo	k spotel	Anbore	An
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
2 50 tek	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek /Anbotek	Anborotek

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Dwell Time

Emissions in non-restricted frequency bands

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
An 30th	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
4n/2	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22

Hotline



Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 11 of 33

Ote.	And	otek pupo.	N. ak	-boye.	VU _D	ysio
	edge emissions (Ra sions in frequency ba		Auporgoiek.	Anbotek	Aupoter.	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbole 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Aupolek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

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





Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 12 of 33

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 2.03 dBi . It complies with the standard requirement.





Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 13 of 33

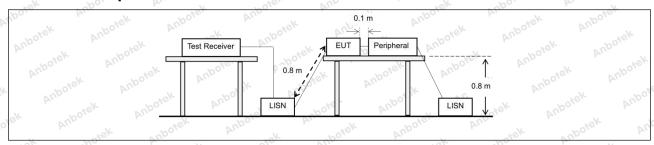
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Excepsection, for an intentional radiator public utility (AC) power line, the rback onto the AC power line on alband 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con radio frequency voltage that ny frequency or frequencient of exceed the limits in the f	nnected to the at is conducted es, within the following table, as			
boick Anbor	Frequency of emission (MHz)	Conducted limit (dBµV)	A. Otek			
Yun Yek Jpolek	Anbore Anbore	Quasi-peak	Average			
Aupor Air	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5 Notes Andrews	56 NOTE AT	46			
And above	5-30 And Stek	60	50 And			
k Aupora K Wi	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2020 section 6.2	Potek Vupoter	Aug			
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un					

3.1. EUT Operation

	Operating Envir	onment:	Aupor	botek .	Aupole	Aug ofek	Anbotek	Vupo.
3,4	Test mode:	1 aboiek	Anboro	VII. Potek	Anbotek	Anbo	hotek	Anbo

3.2. Test Setup



3.3. Test Data

Not applicable for equipment operated with DC power supply.



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Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 14 of 33

4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
rest requirement.	
abotek Anbo.	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
Test Limit:	ensure that the 20 dB bandwidth of the emission, or whatever bandwidth
rest Limit.	may otherwise be specified in the specific rule section under which the
	equipment operates, is contained within the frequency band designated in
upotek Aupo,	the rule section under which the equipment is operated.
To Selvetto al Anboren	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements,
Test Method:	use the procedure in 6.9.3. Frequency hopping shall be disabled for this test.
Anbo	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
Sorek Anbore	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
otek Aupa	(OBW/RBW)] below the reference level. Specific guidance is given in
	4.1.6.2.
Dragadura, "otek	d) Step a) through step c) might require iteration to adjust within the
Procedure:	specified range.
	e) Video averaging is not permitted. Where practical, a sample detection and
	single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
	f) Use the 99% power bandwidth function of the instrument (if available) and
	report the measured bandwidth.
	g) If the instrument does not have a 99% power bandwidth function, then the
	trace data points are recovered and directly summed in linear power terms.
	The recovered amplitude data points, beginning at the lowest frequency, are
	placed in a running sum until 0.5% of the total is reached; that frequency is
	recorded as the lower frequency. The process is repeated until 99.5% of the
	total is reached; that frequency is recorded as the upper frequency. The 99%
	power bandwidth is the difference between these two frequencies.
	h) The occupied bandwidth shall be reported by providing spectral plot(s) of
	the measuring instrument display; the plot axes and the scale units per
	division shall be clearly labeled. Tabular data may be reported in addition to
	the plot(s).
	1 20





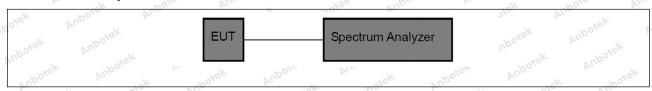


Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 15 of 33

4.1. EUT Operation

Operating En	vironment:	abotek	Aupore	Vur	Anbotek	Aupe
Test mode:	1: TX (Non-Hopping): Keep the E	UT in contin	uously transm	tting mode (r	non- Aupor
rest mode.	hopping).	AUDO	, , , , , , , , , , , , , , , , , , ,	ek nhore	P.L.	ek botel

4.2. Test Setup



4.3. Test Data

Temperature: 25.4 °C	Humidity: 48 °	% Atmospheric Pressure:	101 kPa
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Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 16 of 33

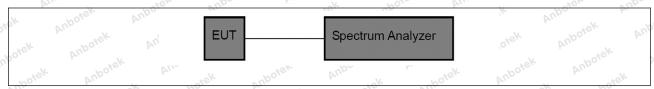
5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: ek Anborek Anborek Anborek Anborek Anborek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5
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.
Procedure:	d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold.
Anbotek Anbote	g) Allow trace to stabilize. h) Use the marker-to-peak function to set the marker to the peak of the emission.
ootek Anbotek A	i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
	j) A spectral plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power
	meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

5.1. EUT Operation

Operating Envi	ronment:	Vu. Polsk	Anbotek	Anbo	abořek	Anbore
Test mode:	1: TX (Non-Hopping).	ping): Keep th	e EUT in cor	ntinuously tra	nsmitting mode	e (non-

5.2. Test Setup



5.3. Test Data

Temperature:	25.4 °C	Humidity: 48 %	Atmospheric Pressure:	101 kPa
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Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 17 of 33

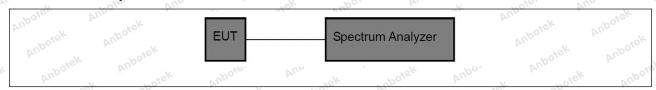
6. Channel Separation

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

6.1. EUT Operation

-	Operating Envi	ronment:	Anborek	Augo	nbotek	Anbore	An botek	Aupote
315	Test mode:	2: TX (Hopp	ing): Keep tl	ne EUT in con	tinuously trar	nsmitting mode	VII.	Anb

6.2. Test Setup



6.3. Test Data

emperature: 25.4	°C Humidity:	48 %	Atmospheric Pressure:	101 kPa	
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Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 18 of 33

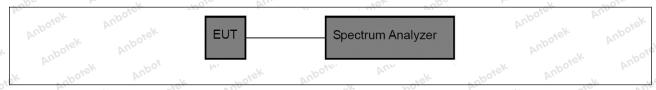
7. Number of Hopping Frequencies

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

7.1. EUT Operation

Operating Environment:	bolek .	Aupole	Anbandiek	Anbotek	Aupo, ok	, p.,
Test mode: 2: TX (Hopp	ing): Keep the	EUT in conti	nuously transr	nitting mode	Anboro	Y

7.2. Test Setup



7.3. Test Data

-	Temperature:	25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	
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Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 19 of 33

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









Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 20 of 33

these two markers.

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

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

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

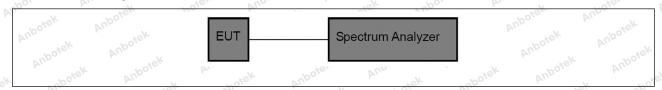
8.1. EUT Operation

Operating Environment:

Test mode:

2: TX (Hopping): Keep the EUT in continuously transmitting mode.

8.2. Test Setup



8.3. Test Data

Temperature:	25.4 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa	
PO. DV.	_		- \/_	70, DV.	-10	





Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 21 of 33

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







Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 22 of 33

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

7.8.7.2 Band-edges

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

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

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

9.1. EUT Operation

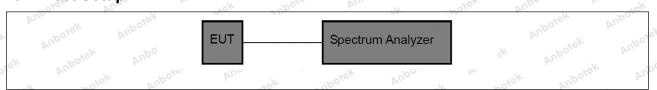
Operating Environment:

Test mode:

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

2: TX (Hopping): Keep the EUT in continuously transmitting mode.

9.2. Test Setup



9.3. Test Data

Temperature: 25.4	°C Market Hu	midity: 48 %	Aupole	Atmospheric Pressure:	101 kPa	1/2
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Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 23 of 33

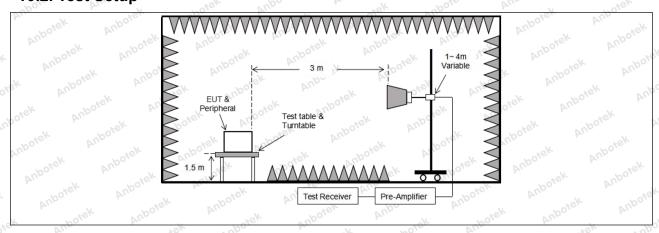
10. Band edge emissions (Radiated)

And K Polsk	Pefer to 47 CER 15 247(d)	In addition, radiated amigaions	which fall in the
Tabole And		In addition, radiated emissions	
Test Requirement:		d in § 15.205(a), must also comp	
Vupo, Vi	radiated emission limits spe	ecified in § 15.209(a)(see § 15.2	05(c)).
k jotek Anbo,	Frequency (MHz)	Field strength	Measurement
VIU.	stek Aupo, VI.	(microvolts/meter)	distance
Tek Spoter An	k botek Anbo	Al. Tek Upoter	(meters)
o. bi.	0.009-0.490	2400/F(kHz)	300 Mario 16
abotek Ande	0.490-1.705	24000/F(kHz)	30 Stek
The spoten	1.705-30.0	30	30
Aupo, Air	30-88	100 **	3,ek nbore
spotek Aupo.	88-216	150 **	3
VII.	216-960	200 **	3 botes And
Anbor	Above 960	500	3 30/
Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek	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-p 90 kHz, 110–490 kHz and a	ragraph (g), fundamental emissing under this section shall not be z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt§ 15.231 and 15.241. The tighter limit applies at the bein the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. ed under other band edges. measurements uency bands 9—sion limits in
Test Method:	ANSI C63.10-2020 section	6.10° Anbour	ak Aupore
Procedure:	ANSI C63.10-2020 section	6.10.5.2	riek anboiek

10.1. EUT Operation

Operating Envir	onment:	Aupo.	abořek.	Anbois	Ann	anbotek	Aupo
Test mode:	707	Hopping): Ke	ep the EUT in	continuousl	y transmitting r	node (non-	PU,
ek abor	hopping).	-k hoie	VUD.		ek about	100	-V-

10.2. Test Setup





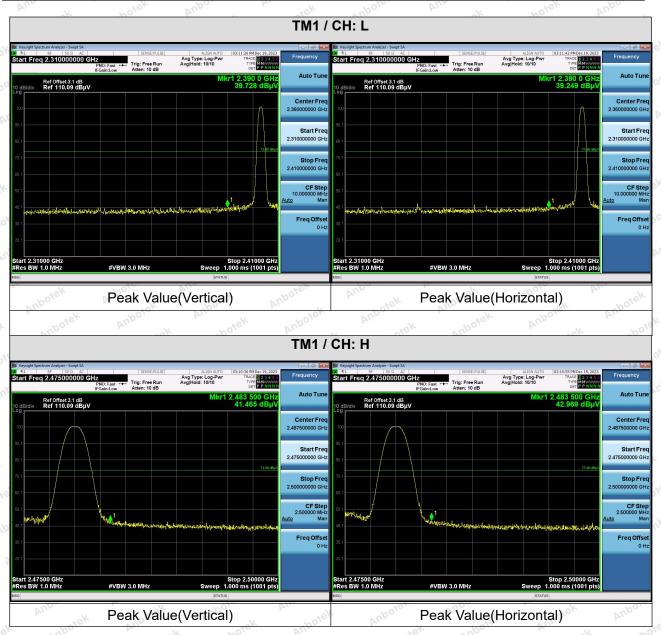




Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 24 of 33

10.3. Test Data

Temperature: 25.4 °C Humidity: 48 % Atmospheric Pressure: 101 kPa



Note: When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.







Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 25 of 33

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					
otek Aupotek Aupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
nbotek Anbotek	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300					
Aupotek Aupotei	1.705-30.0 30-88	30 100 **	30					
Anbote, Anbote	88-216 216-960 Above 960	150 ** 200 **	3					
Test Limit: orek Anborek	Above 960 500 3 ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.							
Test Method:	ANSI C63.10-2020 section	6.6.4	sk Aupore					
Procedure:	ANSI C63.10-2020 section	6.6.4	otek Anbotek					

11.1. EUT Operation

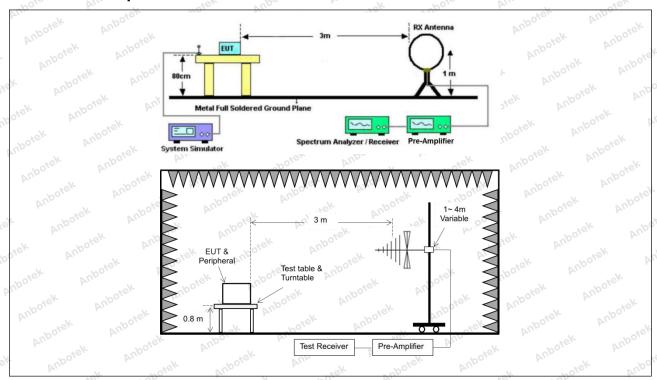
Operating Envir	onment:					Anbotek	Anbo
Test mode:	1: TX (Non-l	Hopping): Kee	p the EUT in	continuously	/ transmitting r	node (non-	An
rest mode.	hopping).	k bojek	Aupo,	₩.	ek aboter	And	.V.





Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 26 of 33

11.2. Test Setup





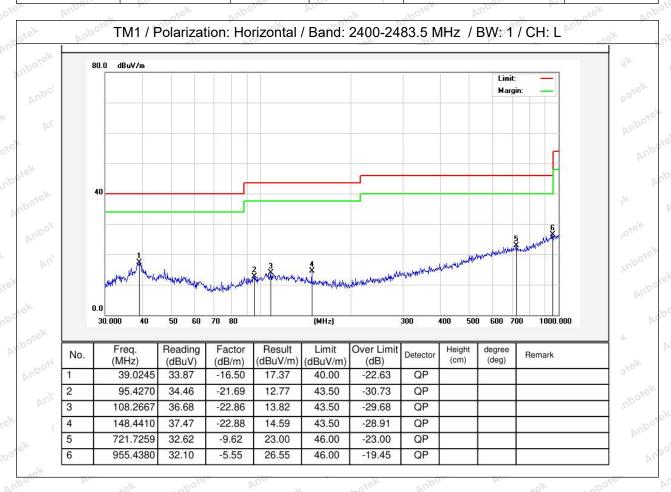


Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 27 of 33

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:	25.4 °C	Humidity:	48%	Atmospheric Pressure:	101 kPa
- 1	Tomporatare.	20.00	i i i di i i di i y .	10 70	7 tarresprient i 1000aro.	p-ioi iti ai

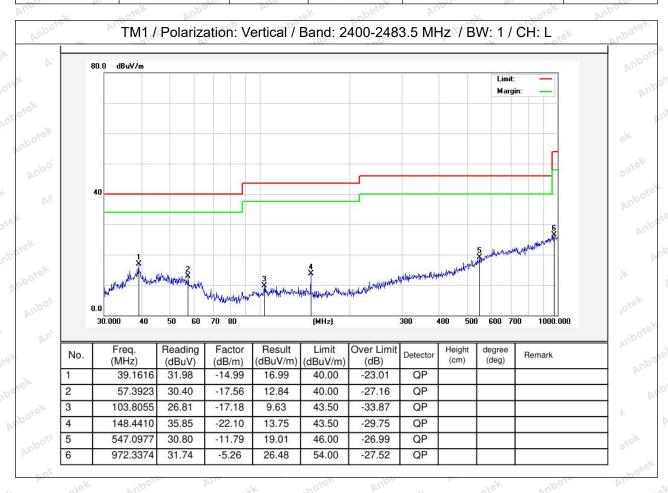






Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 28 of 33

Temperature: 25.4 °C Humidity: 48 % Atmospheric Pressure: 101 kPa







Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 29 of 33

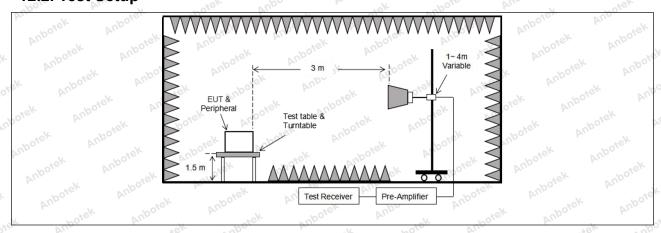
12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted be omply with the radiated emission $\overline{b}(c)$.	
k Aupotek Vupo,	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 0000
inpoter Aug	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
Anbo	30-88	100 **	3 ek Anbore
	88-216	150 **	3
	216-960	200 **	3 poie. And
	Above 960	500 More Andre	3 rek
	frequency bands 54-72 MH However, operation within t sections of this part, e.g., § In the emission table above	e, the tighter limit applies at the b	470-806 MHz. ed under other
	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	in the above table are based on beak detector except for the freq above 1000 MHz. Radiated emised and on measurements employing	uency bands 9– sion limits in
Test Method:	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a these three bands are base	peak detector except for the frequency above 1000 MHz. Radiated emised on measurements employing	uency bands 9– sion limits in

12.1. EUT Operation

Operating Envir	onment:	Aupo.	, boick	Anbore.	And	unpotek	Anbo
Test mode:	1: TX (Non-l hopping).	Hopping): Kee	ep the EUT ir	n continuousl	y transmitting	mode (non-	Pu

12.2. Test Setup









Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 30 of 33

12.3. Test Data

Temperature: 25.4 °C	Humidity: 48 %	Atmospheric Pressure:	101 kPa
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		•	TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4805.30	29.22	15.27	44.49	74.00	-29.51	Vertical
7207.95	30.36	18.09	48.45	74.00	-25.55	Vertical
9610.60	31.60	23.76	55.36	74.00	-18.64	Vertical
12013.25	Vupose,* Vu	.ek	abořek Anb	74.00	oiek Anboir	Vertical
14415.90	"Upo*sk	Aupo, ok	hotek b	74.00	iek on	Vertical
4805.30	29.58	15.27	44.85	74.00	-29.15	Horizontal
7207.95	30.24	18.09	48.33	74.00	-25.67	Horizontal
9610.60	29.37	23.76	53.13	74.00	-20.87	Horizontal
12013.25	otek * Aupo	-V 50	ick Wipole,	74.00	botek	Horizontal
14415.90	hotek* An	bose Vier	iek abo	74.00	ok hote	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
4805.30	18.60	15.27	33.87	54.00	-20.13	Vertical
7207.95	19.39	18.09	37.48	54.00	-16.52	Vertical
9610.60	20.62	23.76	44.38	54.00	-9.62	Vertical
12013.25	in Otok	Anbote. An	You	54.00	-y h	Vertical Vertical
14415.90	Ans *	, upotek	Aupo.	54.00	Pur Yun	Vertical
4805.30	17.93	15.27	33.20	54.00	-20.80	Horizontal
7207.95	19.30	18.09	37.39	54.00	-16.61	Horizontal
9610.60	18.68	23.76	42.44	54.00	-11.56	Horizontal
12013.25	tek *	otek Anbot	× ×0,	54.00	AUG	Horizontal
14415.90	Vpo. *	hotek Ant	ote And	54.00	ek Anbo	Horizontal



Page 31 of 33 Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG

ek Anbo.	A. Stek	anbore.	Ans	hotek	Aupo.	rek
			ГМ1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4883.30	29.24	15.42	44.66	74.00	-29.34	Vertical
7324.95	30.21	18.02	48.23	74.00	-25.77	Vertical
9766.60	30.61	23.80	54.41	74.00	-19.59	Vertical
12208.25	ek * spojek	Anborr	but hotek	74.00	And	Vertical
14649.90	* * *	tek Wipose	Pun Vie	74.00	Anbo	Vertical
4883.30	29.28	15.42	44.70	74.00	-29.30	Horizontal
7324.95	30.23	18.02	48.25	74.00	-25.75	Horizontal
9766.60	29.07	23.80	52.87	74.00	-21.13	Horizontal
12208.25	* otok	Anbore	And	74.00	YUPO, OK	Horizontal
14649.90	ATA STOK	nbotek	Anbo	74.00	Aupole	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4883.30	18.33	15.42	33.75	54.00	-20.25	Vertical
7324.95	19.49	18.02	37.51	54.00	-16.49	Vertical
9766.60	20.48	23.80	44.28	54.00	-9.72	Vertical
12208.25	k *upor	N. Siek	anbotek	54.00	botek	Vertical
14649.90	otek * Anboti	Anb	ek spojek	54.00	bu. Potek	Vertical
4883.30	17.84	15.42	33.26	54.00	-20.74	Horizontal
7324.95	18.86	18.02	36.88	54.00	-17.12	Horizontal
9766.60	19.19	23.80	42.99	54.00	100te - 11.01 Anbe	Horizontal
12208.25	Anbotek	Aup	abořek	54.00	"Otek Di	Horizontal
14649.90	* ~ ~ ~ ~ ~	VUPO.	V. rek	54.00	AUG	Horizontal





Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 32 of 33

en Aug	riek	anbore	VII.	hoter	AUD	atek.
		٦	ГМ1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4961.30	29.51	15.58	45.09	74.00	-28.91 NO	Vertical
7441.95	30.22	17.93	48.15	74.00	-25.85	Vertical
9922.60	31.16	23.83	54.99	74.00	-19.01	Vertical
12403.25	* ~ ~otek	anbore.	Anti-	74.00	Aupo,	Vertical
14883.90	* Vup	iek upołek	Anbo	74.00	Aupore	Vertical
4961.30	29.35	15.58	44.93	74.00	-29.07	Horizontal
7441.95	30.26	17.93	48.19	74.00	-25.81	Horizontal
9922.60	29.75	23.83	53.58	74.00	-20.42	Horizontal
12403.25	Anb * * ek	abotek	Aupo, k	74.00	Aupote, Au	Horizontal
14883.90	W. Apo.	hotek	Anbores	74.00	anbotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4961.30	19.45	15.58	35.03	54.00	-18.97	Vertical
7441.95	20.50	17.93	38.43	54.00	15.57 M	Vertical
9922.60	21.03	23.83	44.86	54.00	-9.14	Vertical N
12403.25	* * sboick	Aupor	hotek	54.00	Aug	Vertical
14883.90	* * *	sk Aupotor	Arra	54.00	Aupo	Vertical
4961.30	19.28	15.58	34.86	54.00	-19.14	Horizontal
7441.95	20.23	17.93	38.16 M	54.00	-15.84	Horizontal
9922.60	19.09	23.83	42.92	54.00	-11.08	Horizontal
12403.25	* tek	Aupoter	Vur.	54.00	Po. Tr.	Horizontal
14883.90	An*	anbotek	Aupo	54.00	Anbole	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.







Report No.: 18220WC30257801 FCC ID: 2BDY9-K947RG Page 33 of 33

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 -----

