

FCC Test Report

Applicant : Launch Tech Co., Ltd.

Address : Launch Industrial Park, North of Wuhe Rd. Banxuegang, Longgang, Shenzhen, China

Product Name : Professional Diagnostic Tool

Report Date : Sept. 23, 2024

Shenzhen Anbotek



Anbolek

Compliance Laboratory Limited







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Report No.:1821C40001812501 FCC ID:XUJCRELITEA

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TEST REPORT

Applicant	"1010r	Launch	Tech	Co.,	Ltd.

Manufacturer Launch Tech Co., Ltd.

Product Name : Professional Diagnostic Tool

Creader Elite A, Creader Elite BN, Creader Elite BM, Creader Elite G, Creader Elite C, Creader Elite H, Creader Elite F, Creader Elite JL,

Model No. : Creader Elite N, Creader Elite T, Creader Elite xyz, Creader Elite P xyz

(x, y, z=arbitrary capital letters or numbers or blank, indicate configuration

difference)

Trade Mark : LAUNCH

Rating(s) Car battery power supply: 12Vdc, 0.7A;

USB power supply: 5V,1A

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 Necelpt.	Aug. 05, 2024
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Prepared By:	And Andrew Andrew
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1. General Information

1.1. Client Information

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Applicant	:	Launch Tech Co., Ltd.
Address	:	Launch Industrial Park, North of Wuhe Rd. Banxuegang, Longgang, Shenzhen, China
Manufacturer	:	Launch Tech Co., Ltd.
Address	:	Launch Industrial Park, North of Wuhe Rd. Banxuegang, Longgang, Shenzhen, China

1.2. Description of Device (EUT)

-oien b	Up	Autor Autor Autore Autore
Product Name	:	Professional Diagnostic Tool
Model No.	:	Creader Elite A, Creader Elite BN, Creader Elite BM, Creader Elite G, Creader Elite C, Creader Elite H, Creader Elite F, Creader Elite JL, Creader Elite N, Creader Elite T, Creader Elite xyz, Creader Elite P xyz (x, y, z=arbitrary capital letters or numbers or blank, indicates configuration difference) (Note: All samples are the same except the model name and car models software, Software differences are only for the purpose of matching different models and do not affect product performance, so we prepare "Creader Elite A" for test only.)
Trade Mark	:	LAUNCH And the Andrew Andrew Andrew Andrew
Test Power Supply	:	DC 5V via Smart Box input AC 120V/60Hz from Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Aupolek Aupolek Villofek Villofek Villofek
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	79 Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	FPC Antenna Tok
Antenna Gain(Peak)	:	3.91dBi Anbotek Anbotek Anbotek Anbotek

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.









1.3. Auxiliary Equipment Used During Test

	Title	Manufacturer	Model No.	Serial No.
Y.	Acer Computer	acer acer	N19W3	2020AJ3862
o,	Acer Computer Adapter	Lite-On Technology Corporation	PA-1650-58	KP06503020
1	Smart Box	W. Woolek Wipole.	And hotel Anbore	Augo Tek
	SWITCHING POWER SUPPLY	Aupotek Vupoter	PSY1203000	Ofek Wigo

1.4. Operation channel list

Operation Band:

Operation B	sand:	Viek V	Upo	Yar	upor	N.	Pols.
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Aupotok	2402	20	2422	40 nbotel	2442	60	00tel 2462 M
Aup die	2403	21/hbolek	2423	× 41	o ^{tek} 2443 Anb	61	2463
2100 tek	2404	× 22 Anb	2424	42	2444	100 62	2464
3 Aupo	2405	otek 23	2425	43	2445	63	2465
otek 4 A	2406	24	2426	And 44	2446	64	2466
100/05	2407	And 25 tek	2427	45	2447	65 Anbo	2467
6 ck	2408	26	2428	46 Anbox	2448	orek 66 V	2468
7 Notek	2409	27	2429	tek 47 An	2449	67	2469
8	2410 Anbol	28	2430	48	2450	68	2470
9 4/10	2411	1001ek 29	2431	49	2451	69 ₀₀₁₀ k	2471
10	2412	My 30	2432	50 otek	2452	70	10 2472 Anbo
Anbotell	2413	31010	2433	51 _{nbo}	2453 nbox	71	2473
A12 12	2414	32 Anbote	2434	52	10010 2454 AT	72	2474
13, nbole	2415	kek 33	o ^{tek} 2435 Ant	53	2455	Anboto	2475
Jek 14 And	2416 And	34	2436	Anbot 54	2456	74	2476
wotek15	2417	35	2437	N 55	2457	75, nb o le	2477
16	2418	And 36 10k	2438	56 ¹⁰ 010	2458	ek 76 Ant	2478
And 17 rek	2419	37	2439	57 Anbc	2459	botek77	2479
18	2420	38 Anbo	2440	potek 58	2460	78	2480
19 ^{Anb}	otek 2421 Anb	otek 39 A	2441	59	2461	Pur - olek	A-Thorek
70.	0		1-07	DA	407		







1.5. Description of Test Modes

V Lagr	- 16 VII
Pretest Modes	Descriptions
Anbotek TM1 And abotek	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
TM2	Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ DQPSK modulation.
And TM3 otek Ant	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
Anbotek TM4 Anbotek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
And hotek Andotek	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ DQPSK modulation.
otek Anbate.	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB And Stek And Stek And Stek
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Dwell Time	2% Anbotes Andrew Anbotek Anbotek
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB Anbote And Solek Anbotek
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

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Test Items	Test Modes	Status
Antenna requirement	Poplek Wpore	Piek
Conducted Emission at AC power line	Mode1,2,3	P
Occupied Bandwidth	Mode1,2,3	P
Maximum Conducted Output Power	Mode1,2,3	P
Channel Separation	Mode4,5,6	P
Number of Hopping Frequencies	Mode4,5,6	Aupole P
Dwell Time	Mode4,5,6	ATP
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	P _{upo}
Band edge emissions (Radiated)	Mode1,2,3	ek P P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	^{lpotek} P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	, 100 P

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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.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 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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Report No.:1821C40001812501 FCC ID:XUJCRELITEA

1.10. Test Equipment List

Cond	ucted Emission at A	C power line	'upo, 'ek	, abotek	Aupore.	VII.
Item	tem Equipment Manufacturer		Model No.	Serial No.	Last Cal.	Cal.Due Date
re ^k 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
nbotek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Aupolok	Auporo /
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Dwell Time

Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
otet	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A Anbo	2023-10-16	2024-10-15
An2ole	DC Power Supply	IVYTECH	JV3605	1804D360 510	2023-10-20	2024-10-19
3 ¹ /10	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
4	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 Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

	issions in frequency band edge emissions (Ra		Anbolek	Vupor.	Aupolek		
Iter	m Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
olek 1	1 EMI Test Receiver Rohde & Schwarz		ESR26	101481	2024-01-23	2025-01-22	
Pup of	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	
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Aur	Aup diek	
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	
7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06	









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Report No.:1821C40001812501 FCC ID:XUJCRELITEA

Emiss	sions in frequency ba	ands (below 1GHz)	rek Aup	holek	Anborok A	Pos Viek
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
¹ € ¹ 2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16
^{nb} 3 ² ^k	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
400	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5 N	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Vupore,	Vup Vek







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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 **FPC Antenna** which permanently attached, and the best case gain of the antenna is **3.91dBi**. It complies with the standard requirement.

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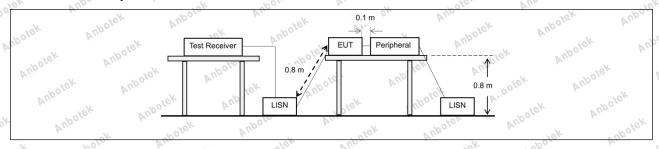
3. Conducted Emission at AC power line

k Auporek Vupe	section, for an intentional radiator t public utility (AC) power line, the ra	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the bublic utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the								
Test Requirement:										
Anbotek Anbotek	band 150 kHz to 30 MHz, shall not exceed the limits in the following table measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).									
Vupoles Vue	Frequency of emission (MHz)	Conducted limit (dBµV)	V. ICK							
F. Viek Vupole	Vin Josek	Quasi-peak	Average							
_ Anbo	0.15-0.5	66 to 56*	56 to 46*							
Test Limit:	0.5-5	56 h	46							
W.	5-30	60 Anbo	50							
Rotek Aupor	*Decreases with the logarithm of th	ne frequency.	100 m							
Test Method:	ANSI C63.10-2020 section 6.2									
Procedure:	Pefer to ANSI C63 10, 2020 section 6.2, standard test method for ac									

3.1. EUT Operation

Operating Envir	onment:	Anbolek	Vupo.	, upotek	Vupote.	Alla
Test mode:	1: TX-GFSK (No hopping) with GF 2: TX-π/4-DQPS (non-hopping) w 3: TX-8DPSK (N hopping) with 8D	FSK modulation K (Non-Hoppin ith π/4 DQPSK on-Hopping): K	n. g): Keep the E modulation. eep the EUT i	EUT in continue	ously transmitt	ting mode
3.2. Test Setu	nb Puporek	Aupor Ciek	Anbotek	Aupolog ek	Au. apolek	Aupolek

3.2. Test Setup







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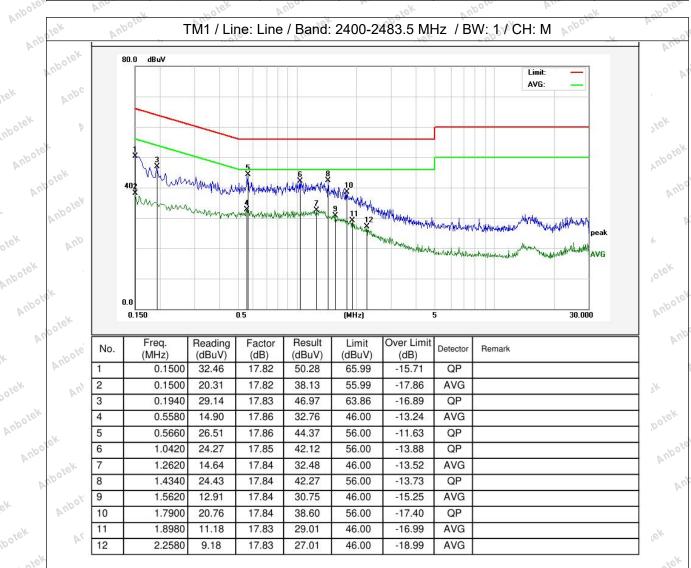
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Aupolek

Report No.:1821C40001812501 FCC ID:XUJCRELITEA

3.3. Test Data

Temperature:	22.5 °C	Humidity:	53 %	Atmospheric Pressure:	101 kPa
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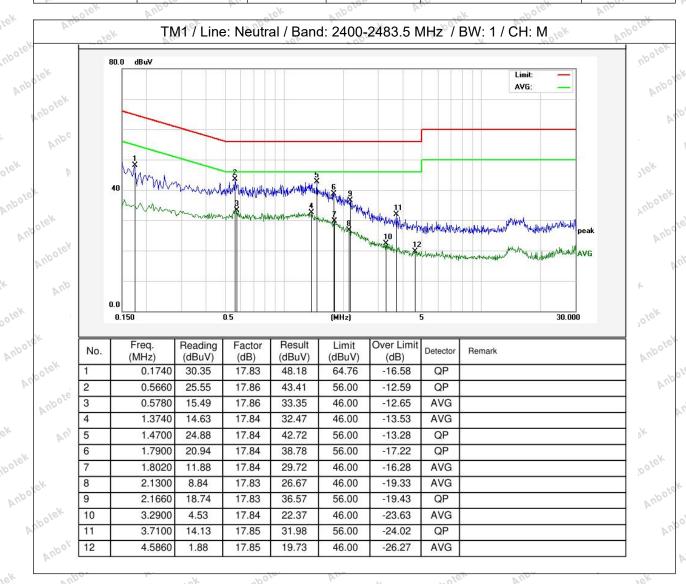






Report No.:1821C40001812501 FCC ID:XUJCRELITEA

Temperature: 22.5 °C Humidity: 53 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







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4. Occupied Bandwidth

lest Redilirement.	47 CFR 15.247	(a)(1) And	Yek	V Upo	Yo.
Test Requirement:	b.	7/8	ional radiators	operation when de	or the Anbore
Anbo		R 15.215(c), intent			
ak abolek		visions to the gene 15.257 and in sub			
Test Limit:		20 dB bandwidth			
otek Lillik.		be specified in the			
'po 'kek	- U -	rates, is contained	7. O. 1		
And And		under which the ϵ			oignated in
H. Vupore	12.	: 1-0/8/-	PU.	49.4	Aupolo
Toot Mothod		020, section 7.8.6			
Test Method:		ure in 6.9.3. Frequ			a for this tes
Vun.	KDB 558074 D	01 15.247 Meas G	uldance vuoru	12 81.	ek "bo
iek Vupoje		pandwidth is the fre			
, otek		e its upper freque			
spolek Aups		otal mean power o			owing
" " "polek		I be used for meas	12/	P. P	Vupore.
Aupore Air.		ent center frequence			
rotek Vupor		frequency span fo		ı analyzer shall	be between
Ando	7/0	5.0 times the OBW		Aur	910,6
abotek An		IF filter bandwidth			
VI.		/, and VBW shall b			/V, unless
rek Aupore		ified by the applica			Y
"otek	. 1/1/1	ence level of the ir		- A.	T () '
upoles Aug		the maximum inp			
rek upoles		ak of the spectral			
Aupor A.		elow the reference	e ievei. Speciii	c guidance is gi	ven in
Polek Vupo.	4.1.6.2.	en atan allegielet n	And iteration	to odiuset withi	n the And
Dragadura, K		ugh step c) might r	equire iteratior	ı to adjust witni	n ine
Procedure:	specified range		d Mhara ara	tical a adultota	datastian an
W.		ging is not permitte			
otek Anbor		node shall be used			riu max-noiu
K hotek		trace stabilizes) sl power bandwidth			wailabla) and
upoter And			iunction of the	instrument (ii a	ivaliable) and
Anbotek Anbotek		sured bandwidth. nent does not have	a 00% nower	handwidth fun	otion than th
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"Olek Aupe		amplitude data po			
And		ning sum until 0.5%			
k Aupoise b		e lower frequency.			
b.		l; that frequency is			
otek Aupor		th is the difference			
ok hotek	· ~~	d bandwidth shall l			_ (\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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164 " UD	I division shall be	e clearly Janeleo - i	anıllar dala mi	av pe remorieo	n agomon ic





4.1. EUT Operation

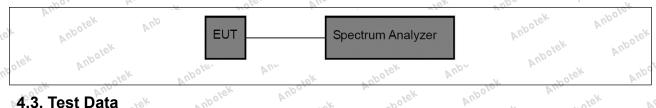
Operating Environment: 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (nonhopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode Test mode:

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

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

4.2. Test Setup

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4.3. Test Data

Temperature: 23.2 °	Humidity: 52 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





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5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Anbotek Test Limit; nootek Anbotek	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
otek Vupotek Vu	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:
Aupotek Aupotek Vipotek Vipotek	 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
Aupotek Aupotek	emission. i) The indicated level is the peak output power, after any corrections for external attenuators and cables. j) A spectral plot of the test results and setup description shall be included in
ek Yupotek V	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 Envir	onment: k Anborek Anb
Y _S	Vupoler.	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-
	rek	hopping) with GFSK modulation.
ν.c	Test mode:	2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode
10	rest mode.	(non-hopping) with π/4 DQPSK modulation.
	upoter Aug	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-
	Vick D	hopping) with 8DPSK modulation.





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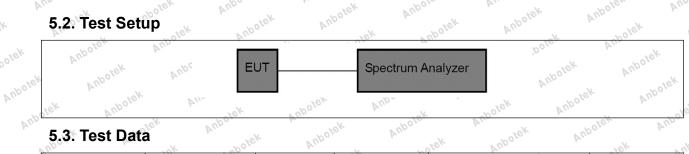
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5.2. Test Setup



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5.3. Test Data

0-	5.3. Test Data	i i	Anborote	k Anbok	?K	Aupore	rek Vupolek	Anl	ofer "ek	Anban
	Temperature:	23.2 °C	V	Humidity:	52 %	VUD	Atmospheric Pre	ssure:	101 kPa	p.

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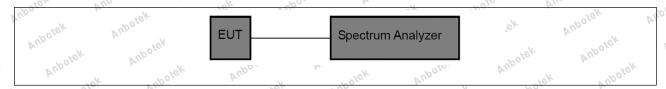
6. Channel Separation

, ok 200,	W. Vie. William Color Wall Color
Test Requirement:	47 CFR 15.247(a)(1)
Aupolen Aup	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have
tek "Upotek I	hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
Test Limit:	Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz
TOSE CHILIC AND	band may have hopping channel carrier frequencies that are separated by
upotek Aupo.	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
W. Wolek Vupore	greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2
Anbou.	KDB 558074 D01 15.247 Meas Guidance v05r02
otek Anboten	The EUT shall have its hopping function enabled. Use the following
iek upotek	spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels.
Aupor K Potek	b) RBW: Start with the RBW set to approximately 30% of the channel
Anboien And	spacing; adjust as necessary to best identify the center of each individual
Thotek Vupor	channel. c) Video (or average) bandwidth (VBW) ≥ RBW.
An An An An	d) Sweep: No faster than coupled (auto) time.
Procedure:	e) Detector function: Peak.
rek apoler	f) Trace: Max-hold.
por P. Spokek	g) Allow the trace to stabilize.
Aupole Au	Use the marker-delta function to determine the separation between the
Potek Wuporg	peaks of the adjacent channels. Compliance of an EUT with the appropriate
Aur Sek Spot	regulatory limit shall be determined. A spectral plot of the data shall be
Anbore	included in the test report.

6.1. EUT Operation

Operating Envi	ronment:	Aupolen	Yun Vek	Aupoiek	Aupo	- N
Test mode:	4: TX-GFSK (Hopp with GFSK modula 5: TX-π/4-DQPSK (hopping) with π/4 6: TX-8DPSK (Hop with 8DPSK modul	tion,. (Hopping): Kee DQPSK modu ping): Keep th	ep the EUT in lation.	continuously tra	nsmitting mod	le

6.2. Test Setup



6.3. Test Data

Temperature:	23.2 °C	upotek	Humidity:	52 %	bolek	Atmospheric Pressure:	101 kPa	Anbo
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Please Refer to Appendix for Details.





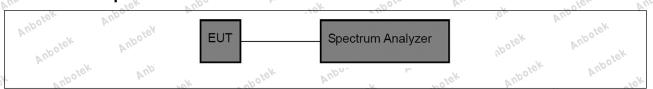
7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit: Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Aupolek Aupolek Vek Veren Ver	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.
Procedure:	c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Vupotek Vupotek	f) Trace: Max-hold. g) Allow the trace to stabilize.
Aupotek Aupo	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

	Vic.		100		· V	~0,	hy.	
D.	Operating Envir	onment:	Aupor	k. Polek	Aupole	Aug	Vuporek	VUp.
	Auporek A	with GFS	K modulation	n,. Anbore	Air.	ously transmitting	And	ng)
¥s	Test mode:	(hopping) with $\pi/4$ DC	PSK modulat	ion.	ntinuously trans	Dr W.	1ek
~ 0	tek Anbotek		PSK (Hoppin SK modulation		EUT in continu	iously transmittir	ng mode (hopp	ing)

7.2. Test Setup



7.3. Test Data

Temperature:	23.2 °C	Humidity:	52 %	Atmospheric Pressure: 1	01 kPa

Please Refer to Appendix for Details.







8. Dwell Time

O'DMEIL LILLE	Anbo	**	rek	Aupore	V.	poler
Test Requirement:	47 CFR 15	.247(a)(1)(iii)	, ek	abotek	Auporo	P. P. Polsk
Anbotek Anbotek Test Limit: Anbotek Anbotek Anbotek	2483.5 MH occupancy period of 0 employed. transmission	z band shall on any chan 4 seconds m Frequency h	use at least nel shall no oultiplied by opping syste	15 channels t be greater the number ems may av	pping systems s. The average than 0.4 secon of hopping cha oid or suppres y provided that	e time of nds within a annels
Test Method:	. 00	10-2020, sec 4 D01 15.24	A.A.	dance v05r0	2 Anbore	Aupotek
Otek Aupotek Aupotek	transmission a single transmission	on to the end nsmission pe on. If the devi s measured	of the last to er hop then t ce has a mu	ransmission the dwell tim ultiple transn	from the start for that hop. If e is the duration dissions per ho transmission	f the device has on of that op then the
ootek Aupotek Aupotek	over an observation over a constant of the observation over a constant ove	servation per the time of oc	iod specified ccupancy the time per ho	d in the regu e spectrum ຄ p and the nu	latory requirer analyzer will b ımber of times	e configured to
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	requirement number of the number based on the dwell times for 1, 3 or 5	nts shall be m channels ena r of channels ne minimum i per channel	ade with the abled. If the than compl number of c (example B hen measur	e minimum a dwell time p iance with th hannels. If the luetooth deve ements can	ne requirement ne device supportices can dwel be limited to t	aximum es not vary with ts may be ports different I on a channel
Anbotek Anbotek	Ann	y about	SK VUL	, V	Polek	dwell time per
Tek Anbotek Anbotek Anbotek Anbotek Anbotek	b) RBW sh set >> 1 / T c) Sweep ti last transm be slightly 1 1/hopping i	, where T is t me: Set so th ission for the onger than th rate) should a	nel spacing the expected nat the start hop are cle ne hopping achieve this	and where per transmission of the first treatly capture period per change.	possible RBW on time per ho ransmission ar d. Setting the nannel (hoppin	p. nd end of the sweep time to
Otek Aupotek Aupotek	the transmito reduce the channel. e) Detector f) Trace: Cl g) Place m	ssion is clear ne chance of function: Pe ear-write, sin arkers at the	rly observed triggering w ak. gle sweep. start of the	I. The triggel hen the sys	r level might n tem hops on a	eed adjustment an adjacent
Aupor An.	these two r		- 40-	potek	Aupo.	r otek





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

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

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

8.1. EUT Operation

Operating Environment:

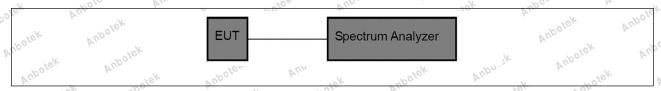
4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.

Test mode:

5: TX- 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:	23.2 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.









9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
tek Aupotek Aug	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
Test Limit: Ambotek	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
Anbotek An	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 §
Test Method:	15.209(a) is not required. ANSI C63.10-2020 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02
Aupotek Aupote	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
otek Anbotek Ar	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.
Anbotek Anbotek	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed
k Anbotek Anbo	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
Dokek Vupotek	coupled sweep time with a peak detector. The limit is based on the highest in-band level across all channels measured using the same instrument actings (recelution bandwidth of 100 kHz video
Procedure:	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
ek Yupofek	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 Anbotek	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used.
Anbotek Anbo	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
itek Vupotek	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
Auporek Auporek	standards measurement procedures described in Clause 6 with the 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.

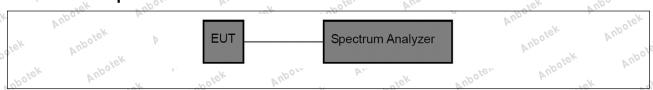
9.1. EUT Operation

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:	23.2 °C	Humidity:	52 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.





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Report No.:1821C40001812501 FCC ID:XUJCRELITEA

10. Band edge emissions (Radiated)

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Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also comp	ly with the
W.	radiated emission limits spe	ecified in § 15.209(a)(see § 15.2	05(c)).
Potek Vupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
YU. CIEK	0.009-0.490	2400/F(kHz)	300,000
Anboien And	0.490-1.705	24000/F(kHz)	30
Viek Vupos	1.705-30.0	30 And Notek	30 And
Anbo	30-88	100 **	3 hotek
k upotek And	88-216	150 **	3
V.	216-960	200 **	3 tek napole
Otek Vupor	Above 960	500	3
Test Limit:	** Except as provided in pa	ragraph (g), fundamental emissi	ons from
" upolen Aug		ng under this section shall not b	
A. rek viporer		z, 76-88 MHz, 174-216 MHz or	
Vupo, Vie		hese frequency bands is permitt	
Puporek Vupo	sections of this part, e.g., §		Anb
VII.	In the emission table above	, the tighter limit applies at the b	and edges.
sk Aupore VI	40.	in the above table are based on	
tek upotek		peak detector except for the freq above 1000 MHz. Radiated emis	
60. b.	- CU**	-40	. 0.0
rotek Vupore	V	d on measurements employing	an average
And tok	detector.	Pose. Yun	Polek
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M	-40	k Vupotek
Procedure:	ANSI C63.10-2020 section	6.10,5.2	rek abolek
160.	11.	200	. O

10.1. EUT Operation

7	Operating Envir	onment: And
	Test mode:	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.
360	And	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-
	isk upole.	hopping) with 8DPSK modulation.





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Report No.:1821C40001812501 FCC ID:XUJCRELITEA

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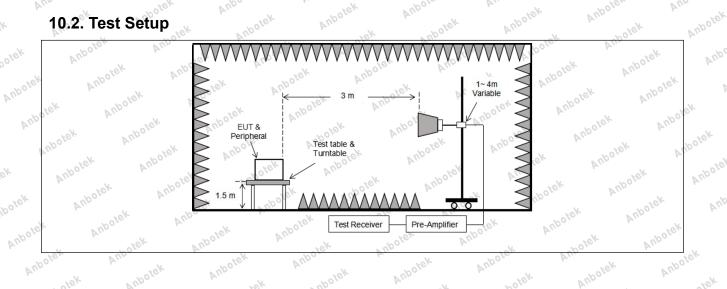
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10.2. Test Setup

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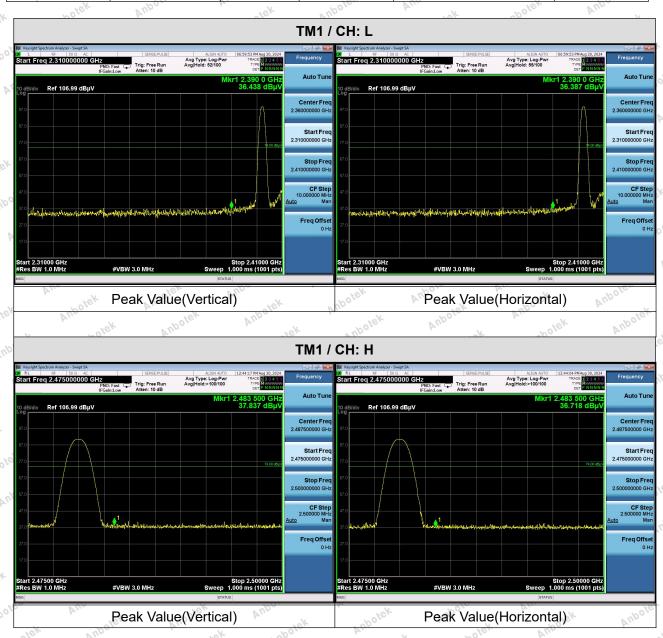
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10.3. Test Data

Temperature: 23.2 °C Humidity: 52 % Atmospheric Pressure: 101 kPa



Remark

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Aupolek

- 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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Report No.:1821C40001812501 FCC ID:XUJCRELITEA

11. Emissions in frequency bands (below 1GHz)

Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also compty with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).` Frequency (MHz)	Jak John	F	VII.	* UD.
radiated emission limits specified in § 15.209(a)(see § 15.205(c)). Frequency (MHz) Field strength (microvolts/meter) 0.009-0.490 0.490-1.705 0.490-1.705 0.490-1.705 0.490-1.705 0.490-1.705 0.490-1.705 0.490-1.705 0.490-1.705 0.490-1.705 0.490-1.705 0.490-1.705 0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.	Test Requirement			
(microvolts/meter) distance (meters) 0.009-0.490 2400/F(kHz) 300 0.490-1.705 24000/F(kHz) 30 1.705-30.0 30 30 30-88 100 ** 3 88-216 150 ** 3 216-960 200 ** 3 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 KDB 558074 D01 15.247 Meas Guidance v05r02	Ando			
Composition Composition	rek Aupole	Frequency (MHz)		V L-01
D.009-0.490 0.490-1.705 24000/F(kHz) 300 1.705-30.0 30 30-88 100 ** 88-216 216-960 Above 960 500 ** 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 KDB 558074 D01 15.247 Meas Guidance v05r02	otek Anbotek	Ando lek	(microvolts/meter)	
1.705-30.0 30 30 30 30 30 30-88 100 ** 3 88-216 150 ** 3 216-960 200 ** 3 Above 960 500 3 Test Limit: **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 KDB 558074 D01 15.247 Meas Guidance v05r02	Yupo Pokek	0.009-0.490	2400/F(kHz)	100
30-88	Anbore And			30
88-216	hotek Anbore		- //	1
Test Limit: 216-960 200 ** 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 KDB 558074 D01 15.247 Meas Guidance v05r02	Aug ok	V-		0.77
Test Limit: Above 960 ** 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 KDB 558074 D01 15.247 Meas Guidance v05r02	k Vupoje, Vu			7.0
** 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 KDB 558074 D01 15.247 Meas Guidance v05r02	Clek	V		
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 KDB 558074 D01 15.247 Meas Guidance v05r02	otek Anbe	Above 960	500 h	n3
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 KDB 558074 D01 15.247 Meas Guidance v05r02	Test Limit:			
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 KDB 558074 D01 15.247 Meas Guidance v05r02	Aupor A. Ciek			
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 KDB 558074 D01 15.247 Meas Guidance v05r02	hotek Anbo			
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. ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	Yun Vek Joke			ed under other
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 KDB 558074 D01 15.247 Meas Guidance v05r02	Anbore Air			1 - 1 0/6k
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. ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	work An			
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 KDB 558074 D01 15.247 Meas Guidance v05r02	er And			
these three bands are based on measurements employing an average detector. ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	rek vupole			
detector. ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	loo, k	~0.	1/2	70.
KDB 558074 D01 15.247 Meas Guidance v05r02	Aupotek Vupo	- / / / /	hotek Anboles	Allolago
Procedure: ANSI C63.10-2020 section 6.6.4	Test Method:			k Vuporek
	Procedure:	ANSI C63.10-2020 section	6.6.4 And	tek vupolek

11.1. EUT Operation

7	Operating Envir	onment:
	Test mode:	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.
300	Vup.	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
	iek abou	nopping) with 6DPSK modulation.





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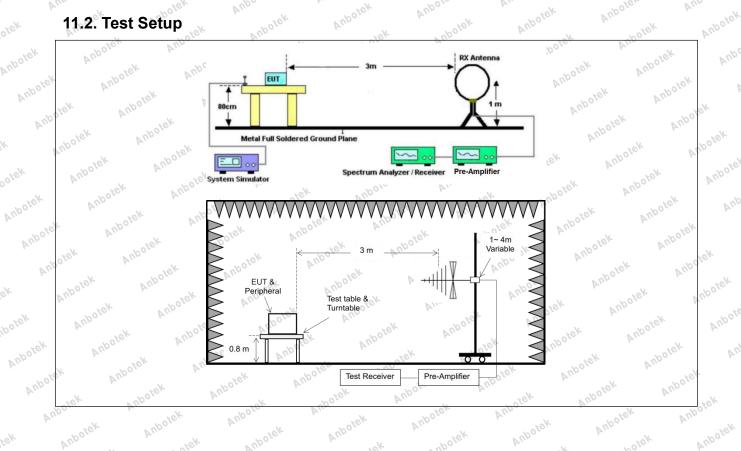
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11.2. Test Setup



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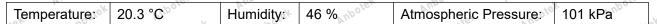


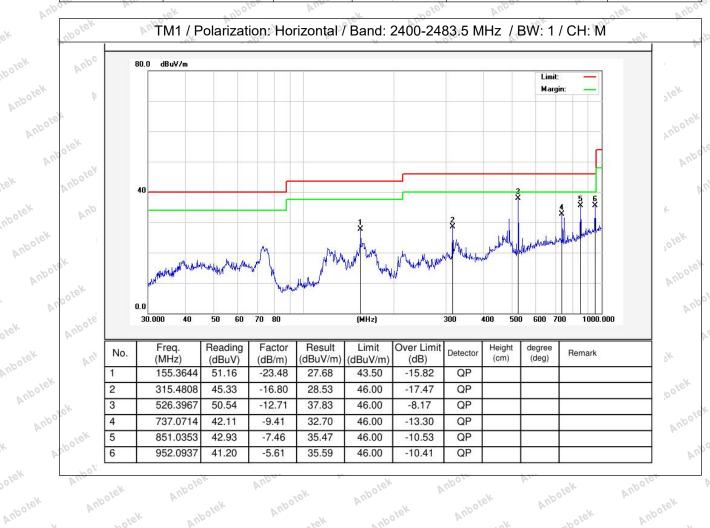




11.3. Test Data

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



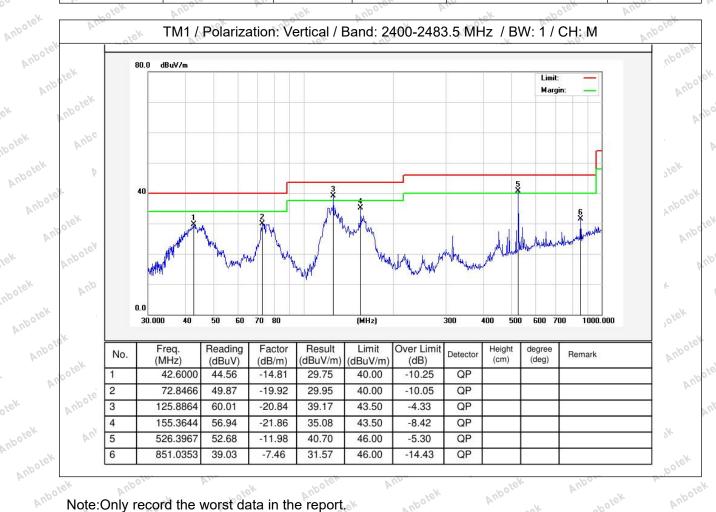






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Atmospheric Pressure: Temperature: 20.3 °C Humidity: 46 % 101 kPa



Note:Only record the worst data in the report.







12. Emissions in frequency bands (above 1GHz)

Viek Vupo	The state of the s	All	PUD.
Ando		ons which fall in the restricted ba	
Test Requirement:		omply with the radiated emission	limits specified
V.	in § 15.209(a)(see § 15.205	, 10 p	rek anbore
rek Vupos	Frequency (MHz)	Field strength	Measurement
rk hotek	Anbo	(microvolts/meter)	distance
Upoler Aug	Polek Pupo	The Mark	(meters)
rick Vupole	0.009-0.490	2400/F(kHz)	300,000
Aupo	0.490-1.705	24000/F(kHz)	30
Polek Vupe	1.705-30.0	30 And the Model	30 Mupa
All Services	30-88	100 **	3
k Anbore An	88-216	150 **	3
, polek	216-960	200 **	3 tek Anbou
oter Aug	Above 960	500	73
Test Limit:		ragraph (g), fundamental emissi	
Aupo, K.		ng under this section shall not b	
polek Anbo		z, 76-88 MHz, 174-216 MHz or 4	
VIII.		hese frequency bands is permitt	ed under other
Aupore Air.	sections of this part, e.g., §		Viek
Clek An		, the tighter limit applies at the b	
er And	16.	in the above table are based on	
ick upoles		peak detector except for the freq above 1000 MHz. Radiated emis	
loor K.	W 1	ed on measurements employing	7.0
Vupotek Vupo,	detector.	a on measurements employing	anaverage
Tacting to the all Anbotes	ANSI C63.10-2020 section	6.6.4	Aupos
Test Method:	KDB 558074 D01 15.247 M		k Aupoles
Procedure:	ANSI C63.10-2020 section	6.6.4 Anborek Anbo	ok shotek
" 46 _L		- 100 . K.	VI. 7/11.

12.1. EUT Operation

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0	Operating Envir	nment: nbotek Anbo k botek Anbo At Att
•	Aupotek Ar	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-nopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode
	Test mode:	(non-hopping) with π/4 DQPSK modulation.
3/4	Aupo	3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-
	rek upotek	nopping) with 8DPSK modulation.





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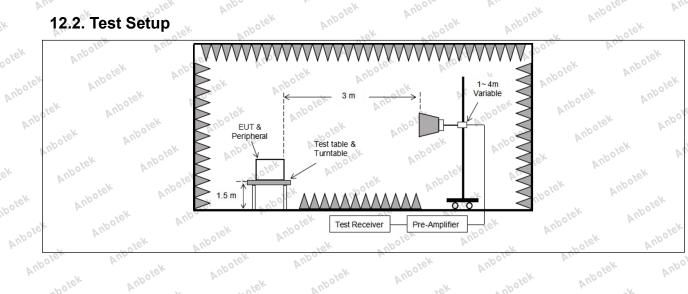
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12.2. Test Setup

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Report No.:1821C40001812501 Anbotek FCC ID:XUJCRELITEA

12.3. Test Data

Temperature:	23.6 °C	Humidity:	56.5 %	Atmospheric Pressure:	101 kPa	
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40.	Kolek	Anbo	rek	Anbore	VI.	Sporer	AUD	
ipotek			1	ГМ1 / CH: L				
5.0	Peak value:							
V.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
	4804.00	30.48	15.27	45.75	74.00	-28.25	Vertical	
	7206.00	31.08	18.09	49.17	74.00	-24.83	Vertical	
49	9608.00	33.04	23.76	56.80	74.00	-17.20	Vertical	
ek.	12010.00	AMOOPE	All	VUPO! GK	74.00	abotek	Vertical	
100	14412.00	k * "polek	Anbo	200°	74.00	<i>b.</i>	Vertical Vertical	
	4804.00 nbox	30.58	otek 15.27 papa	45.85	74.00	-28.15 And	Horizontal	
b	7206.00	32.48	18.09	10016 50.57 M	74.00	23.43	Horizontal	
	9608.00	29.66	23.76	53.42	74.00	-20.58	Horizontal	
	12010.00	*tek	Anbore	VIII	74.00	' V	Horizontal	
^N 9;	14412.00	Ans *	anbotek	Aupo	74.00	Aupore	Horizontal	
d_{D}	Average value:							
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization	
	4804.00	19.86	15.27	35.13	54.00	-18.87	Vertical	
-	7206.00	20.11	18.09	38.20	54.00	-15.80	Vertical	
.0	9608.00	22.06	23.76	45.82	54.00	-8.18	Vertical	
ote	12010.00	* Aubole	Vun	k upotek	54.00	ok "016'	Vertical	
DU.	14412.00	* "pol	ak Anbo	- K 100	54.00 And of	V.	Vertical (
	4804.00	18.93	15.27 AN	34.20	54.00	19.80 h	Horizontal	
	7206.00	21.54	18.09	39.63	54.00	-14.37	Horizontal	
	9608.00	18.97	23.76	42.73	54.00	-11.27	Horizontal	
45	12010.00	(dBuV) (dBm) (dBuV/m) (dBuV/m) (dB) polarization 30.48 15.27 45.75 74.00 -28.25 Vertical 31.08 18.09 49.17 74.00 -24.83 Vertical 33.04 23.76 56.80 74.00 -17.20 Vertical * 74.00 Vertical Vertical 30.58 15.27 45.85 74.00 -28.15 Horizontal 32.48 18.09 50.57 74.00 -23.43 Horizontal 29.66 23.76 53.42 74.00 -20.58 Horizontal * 74.00 Horizontal Horizontal * 74.00 -18.87 Vertical * 74.00 -18.87 Vertical * 20.11 18.09 38.20						
07	14412.00		upolek.	Anbo	54.00	Anbore	Horizontal	

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Report No.:1821C40001812501 FCC ID:XUJCRELITEA

	itek Aupol	٦	ГМ1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	30.50	15.42	45.92	74.00	-28.08	Vertical
7323.00	30.93	18.02	48.95	74.00	-25.05 m	Vertical
9764.00	32.05 M	23.80	55.85 kg	74.00	18.15	Vertical V
12205.00	rotek *	upole, V	iek.	74.00	1400	Vertical
14646.00	Aug *	"poick	Aupor	74.00	Aupole	Vertical
4882.00	30.28	15.42	45.70	74.00	-28.30	Horizontal
7323.00	32.47	18.02	50.49	74.00	-23.51	Horizontal
9764.00	29.36	23.80	53.16	74.00	-20.84	Horizontal
12205.00	*	otek aupo	ler Vup	74.00	Olek Vupo	Horizontal
14646.00	OOFER * VUD	49.	abotek Ar	74.00	holek A	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	19.59	15.42	35.01	54.00	-18.99	Vertical
7323.00	20.21	18.02	38.23 NO	54.00	-15.77	Vertical **
9764.00	21.92	23.80 And	45.72	54.00	-8.28	Vertical
12205.00	*	Polek	Aupor	54.00	Aupolei.	Vertical
14646.00	Anbole*	Viek	Vupolek	54.00	abotek	Vertical
4882.00	18.84	15.42	34.26	54.00	-19.74	Horizontal
7323.00	21.10	18.02	39.12	54.00	-14.88	Horizontal
9764.00	19.48	23.80	43.28	54.00	-10.72 ¹⁰⁰⁰	Horizontal
12205.00	lek * Vupo,	- 0/2 V	otek Anb	54.00	otek Ant	Horizontal
14646.00	* 10.	Vie. Pu		54.00	(D	Horizontal

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Anbolek



	HOW AUD	<u> </u>	tek "up,	0, k.	10 No.	ole, VIII
			ГМ1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	30.77	15.58	46.35	74.00	-27.65	Vertical
7440.00	30.94	17.93	48.87	74.00	-25.13 ₁₀₀ 1	Vertical
9920.00	10 32.60 NO	23.83	56.43	74.00 M	-17.57	ું Vertical ⊾ત
12400.00	*	Abolek Ar	100, 14	74.00	upole, VI	Vertical
14880.00	Anbor *	, otek	Anbolek	74.00	"Upolek	Vertical
4960.00	30.35	15.58	45.93	74.00	-28.07	Horizontal
7440.00	32.50	17.93	50.43	74.00	-23.57	Horizontal
9920.00	30.04	23.83	53.87	74.00	-20.13	Horizontal
12400.00	* And	104	iek Aupo.	74.00	olek Aupo	Horizontal
14880.00	ootek * Anb	0.0	otek An	74.00	161	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	20.71	15.58	36.29	54.00	-17.71	Vertical
7440.00	21.22	17.93	39.15	54.00	-14.85	Vertical
9920.00	22.47	otek 23.83 And	46.30	54.00	-7.70 And	Vertical
12400.00	"pole, * Yu.	16k	nbotek A	54.00	polek	Vertical
14880.00	" Upole*	Aupo	hotek	54.00	Viek.	Vertical
4960.00	20.28	15.58	35.86	54.00	-18.14	Horizontal
7440.00	22.47	17.93	40.40	54.00	-13.60	Horizontal
9920.00	19.38	23.83	43.21	54.00	-10.79	Horizontal
12400.00	lek * Aupol	e. Vun	rek anb	54.00 And S	Y- 40.	Horizontal
14880.00	*	Polek Vul	, v	54.00	Ipolo VIII	Horizontal

Remark:

- 1. Result =Reading + Factor
- Test frequency are from 1GHz to 25GHz, "*" 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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Report No.:1821C40001812501 FCC ID:XUJCRELITEA

APPENDIX I -- TEST SETUP PHOTOGRAPH

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Please refer to separated files Appendix I -- Test Setup Photograph RF

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APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

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Please refer to separated files Appendix III -- Internal Photograph

----- End of Report ---

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