

Address

Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 1 of 31

FCC Test Report

Applicant : Shenzhen Qianyan Technology LTD

No.3301,Block C,Section 1,Chuangzhi Yuncheng

Building, Liuxian Avenue, Xili Community, Xili

Street, Nanshan District, Shenzhen, 518000,

China

Product Name : Govee TV Backlight 3 Lite

Report Date : Jul. 22, 2024

Shenzhen Anbotek

Shenzhen Anbotek

Shenzhen Anbotek

Product Safety

Anbotek

Product Safety

Anbotek

Product Safety

Anbotek

Product Safety

Approved **

App







Report No.: 182518C400012101 Page 2 of 31 FCC ID: 2A7VD-H6097

Contents

1. General	Information	AUD.			<u>kopor</u>				S.L.
1.2. D	lient Information escription of Device (E	EUT)	-otek	VUpo.	h.	·eY	abole	P.L.	
1.3. A	uxiliary Equipment Use	ed During Te	est	Aup	ot ^{er}	nb	anb	ye.K	Kupa
1.5. D	escription of Test Mod	es 🗠		iek	Upo.	by.	٧	bote.	P
1.6. N	leasurement Uncertair	nty		1370×	Anbotek	<i>bab</i> o	,ek	botok.	}
1.8. D	escription of Test Faci	lity			borc	VII.		?	S.L.
1.9. D	isclaimer	otek An	oo'tek	Anbo		,ek	Apole	Arr	
1.1U.	Test Equipment List requirement conclusion ted Emission at AC po UT Operation est Setup	, otek	Aupotek	AUPO.	*ek	botek	Aupote,		II
2. Antenna	requirement	Vuga.	nbotek	AUP		hotek	Anbo		1969 1
2.1,0	onclusion	Myso.	, bot	er p	Wage	19to	, D.	10010K	<i>P</i> ₁
3. Conduc	ted Emission at AC po	wer line		otek	Aupoter	602	46K	VUPOLOK.	1
3.1. E	UT Operationest Setup	,A	24	otek	anbotek	big	· ek	h. abote	ب 13 11
3.3. T	est Data	lag ^{Yar} o	o le	VUD.		ek P	^U po,		
4. Occupie	est Dataed BandwidthUT Operation	ek	rupo _{tek}	Aupo.	·//	potek	Aupote,	- Aur	10
4.1. E	UT Operation	⁷ UD 2		Aupo	k	. Notek	Anbot		10
1001er 4.3. I	est Data			Y		1260		/e/	1
E Mayimu	m Canduated Output I	Januar .							4
5. Maximu	m Conducted Output F	Power	10.q ×	otek botek	Anborok		46k	Andore	18
5. Maximu 5.1. E 5.2. To 5.3. To	m Conducted Output I UT Operationest Setupest Data	Power	// // // // // // // // // // // // //		Aupodok Pupodok	**************************************	**************************************	Anbolo	18 18 18
5. Maximu 5.1. E 5.2. To 5.3. To 6. Power S	m Conducted Output I UT Operation est Setup est Data Spectral Density	Power	(1.00 / 1	oorek gaborek Angorek	Anborek	ok Ar ok Ar	,501e ^k	Anbores Anbores	18 18 18 19
5. Maximu 5.1. E 5.2. To 5.3. To 6. Power S 6.1. E	m Conducted Output I UT Operation est Setup est Data Spectral Density UT Operation	Power	100 / 100 /	Anborek Anborek	A	odina Natel Satel Manadal	policies of the second	Anborol Anborol Anborol Anborol Anborol	18 18 18 19
5.3. II 6. Power \$ 6.1. E 6.2. To	Spectral Density UT Operationest Setup		Antoolek Antoolek Antoole	Anbol Anbol	o ^{otek} oo ^{tek}	AND SARK	1000000 1000 10000000000000000000000000	otek Sotek	19 19 19
6. Power \$ 6.1. E 6.2. T 6.3. T	Spectral Density UT Operationest Setupest Data	Anbough	Antoniek Antonie	k Anbol k An	Vipotek Vipotek	Augustek Pungatek	en beg		19 19 19 19
6. Power \$ 6.1. E 6.2. To 6.3. To	Spectral Density UT Operationest Setupest Data	equency ban	Amante Amante	Maria Maria	ootek Anborek Anborek	Andronek Andronek	ek gabori	orek Anborek	19 19 19 19
6. Power \$ 6.1. E 6.2. To 6.3. To	Spectral Density UT Operationest Setupest Data	equency ban	Amante Amante	Maria Maria	ootek Anborek Anborek	Andronek Andronek	ek gabori	orek Anborek	19 19 19 19
6. Power \$ 6.1. E 6.2. To 6.3. To	Spectral Density UT Operationest Setupest Data	equency ban	Amante Amante	Maria Maria	ootek Anborek Anborek	Andronek Andronek	ek gabori	orek Anborek	19 19 19 19
6. Power \$ 6.1. E 6.2. To 6.3. To	Spectral Density UT Operationest Setupest Data	equency ban	Amante Amante	Maria Maria	ootek Anborek Anborek	Andronek Andronek	ek gabori	orek Anborek	19 19 19 19
6. Power \$ 6.1. E 6.2. To 6.3. To	Spectral Density UT Operationest Setupest Data	equency ban	Amante Amante	Maria Maria	ootek Anborek Anborek	Andronek Andronek	ek gabori	orek Anborek	1 1 1 1
6. Power \$ 6.1. E 6.2. To 6.3. To	Spectral Density UT Operationest Setupest Data	equency ban	Amante Amante	Maria Maria	ootek Anborek Anborek	Andronek Andronek	ek gabori	orek Anborek	1 1 1 1
6. Power \$ 6.1. E 6.2. To 6.3. To	Spectral Density UT Operationest Setupest Data	equency ban	Amante Amante	Maria Maria	ootek Anborek Anborek	Andronek Andronek	ek gabori	anborek Anborek	1 1 1 1
6. Power \$ 6.1. E 6.2. To 6.3. To	Spectral Density UT Operationest Setupest Data	equency ban	Amante Amante	Maria Maria	ootek Anborek Anborek	Andronek Andronek	ek gabori	anborek Anborek	19 19 19 19
6. Power \$ 6.1. E 6.2. To 6.3. To	Spectral Density UT Operationest Setupest Data	equency ban	Amante Amante	Maria Maria	ootek Anborek Anborek	Andronek Andronek	ek gabori	anborek Anborek	19 19 19 19







Report No.: 182518C400012101	FCC I	D: 2A7V	'D-H6097		Page :	3 of 31
10. Emissions in frequency bands (above 1G	Hz)	otek	Anbore	An Totek	Anbo	27
10.1. EUT Operation	Vo.	-potek	Aupo,	be.	rek ni	^{bote} 27
10.2. Test Setup		Y.,	~bo't®'	VUD.		27
10.3. Test Data		Vupo,	Pr.		poter	28
APPENDIX I TEST SETUP PHOTOGRAPI	 Нке ^к	Anbote	VUD.		botek	8nboro
APPENDIX II EXTERNAL PHOTOGRAPH			otek	Uporg	VII.	31
APPENDIX III INTERNAL PHOTOGRAPH		V. VUI		,otek	Vupo,	31





Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 4 of 31

TEST REPORT

Applicant Shenzhen Qianyan Technology LTD

Manufacturer Shenzhen Qianyan Technology LTD

Product Name Govee TV Backlight 3 Lite

Test Model No. : H6097

: N/A Reference Model No.

Trade Mark Govee

Rating(s) Input: 12V -- 2A

47 CFR Part 15.247

Test Standard(s) ANSI C63.10-2020

KDB 558074 D01 15.247 Meas Guidance v05r02

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt	May 20, 2024
Date of Test	May 20 ~ May 31, 2024
Prepared By	Nian xiu Chen
Anborrak Anborrak Anborrak	(Nianxiu Chen)
	Idward pan
Approved & Authorized Signer	Anbor And Otek Anborre And
And Anhore All	(Edward Pan)







Report No.: 182518C400012101 FCC ID: 2A7VD-H6097

Page 5 of 31

Revision History

Report Version	Description	Issued Date		
Anbote R00 potek Anbo	Original Issue.	Jul. 22, 2024		
ek abotek Anbotek Ar	ootek Anbotek Anbotek	Anbotek Anbotek Anbo		
otek Anbotek Anbotek	Anbotek Anbotek Anbot	ek Anbotek Anbotes Ar		





Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 6 of 31

1. General Information

1.1. Client Information

Applicant	: Shenzhen Qianyan Technology LTD	Aug pote
Address	No.3301,Block C,Section 1,Chuangzhi Yuncheng Building,Liuxiar : Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, & China	
Manufacturer	: Shenzhen Qianyan Technology LTD	o. P
Address	No.3301,Block C,Section 1,Chuangzhi Yuncheng Building,Liuxiar : Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, & China	

1.2. Description of Device (EUT)

Product Name	:	Govee TV Backlight 3 Lite
Test Model No.	:	H6097 Anbotek Anbotek Anbotek
Reference Model No.	:	N/Atek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	Govee Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Manufacturer: Dong Guan Royal Intelligent Co.,Ltd Model: BI24G-120200-AdU Input: 100-240V~ 50/60Hz 0.8A Output: 12V 2A
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channels	:	40 Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	3.18 dBi
Pomark:	100,	All the Man

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.







FCC ID: 2A7VD-H6097 182518C400012101 Report No.: Page 7 of 31

1.3. Auxiliary Equipment Used During Test

Title		Manufacturer	Model No.	Serial No.	
	Anbotek / Anbote	And otek unbotek	Aupo, A A potek	Anbore. / And	

1.4. Operation channel list

Operation Band:

ariu.	1. In	20, D.,		View VUD		10.
Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2402	10	2422	20	2442	30 tek	2462
2404	1,10°ek	2424	21,01ek	2444	31	2464
2406	12 _{nb} ote	2426	22	2446	32	2466
2408	nek 13 Anb	2428	23	2448 M	33	2468
2410	50te/14	2430	24	2450	34	2470
2412	15	2432	25	2452	35	2472
2414	16	2434	An 26	2454	36	2474
2416	17 botel	2436	27	2456	37	2476
2418	18	2438	28	2458	38 A ^{ribo}	2478
2420	19	2440	29	2460	o ^{tol} 39	2480
	Frequency (MHz) 2402 2404 2406 2408 2410 2412 2414 2416 2418	Frequency (MHz) Channel 2402 10 2404 11 2406 12 2408 13 2410 14 2412 15 2414 16 2416 17 2418 18	Frequency (MHz) Channel Frequency (MHz) 2402 10 2422 2404 11 2424 2406 12 2426 2408 13 2428 2410 14 2430 2412 15 2432 2414 16 2434 2416 17 2436 2418 18 2438	Frequency (MHz) Channel Frequency (MHz) Channel 2402 10 2422 20 2404 11 2424 21 2406 12 2426 22 2408 13 2428 23 2410 14 2430 24 2412 15 2432 25 2414 16 2434 26 2416 17 2436 27 2418 18 2438 28	Frequency (MHz) Channel Frequency (MHz) Channel Frequency (MHz) 2402 10 2422 20 2442 2404 11 2424 21 2444 2406 12 2426 22 2446 2408 13 2428 23 2448 2410 14 2430 24 2450 2412 15 2432 25 2452 2414 16 2434 26 2454 2416 17 2436 27 2456 2418 18 2438 28 2458	Frequency (MHz) Channel Frequency (MHz) Channel Frequency (MHz) Channel Channel Frequency (MHz) Channel 2402 10 2422 20 2442 30 2404 11 2424 21 2444 31 2406 12 2426 22 2446 32 2408 13 2428 23 2448 33 2410 14 2430 24 2450 34 2412 15 2432 25 2452 35 2414 16 2434 26 2454 36 2416 17 2436 27 2456 37 2418 18 2438 28 2458 38

1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek TM1 nbotek	Keep the EUT in continuously transmitting mode with GFSK modulation.



Hotline



182518C400012101 Report No.: FCC ID: 2A7VD-H6097 Page 8 of 31

1.6. Measurement Uncertainty

Uncertainty
3.4dB
925Hz
0.76dB
0.76dB
1.24dB
1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
3.53dB hotek Anborek Anborek
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.

1.7. Test Summary

Test Items	Test Modes	Status		
Antenna requirement	Tek Botek Ar	boser P A		
Conducted Emission at AC power line	Mode1	Aupole P		
Occupied Bandwidth	Mode1	AUBJER		
Maximum Conducted Output Power	Mode1	P/poje		
Power Spectral Density	Mode1	Sk B Wpo,		
Emissions in non-restricted frequency bands	Mode1	potek P An		
Band edge emissions (Radiated)	Mode1	Anbotek P		
Emissions in frequency bands (below 1GHz)	Mode1	Auphor		
Emissions in frequency bands (above 1GHz)	Mode1	Poorer		
Note: Anbotek P: Pass	Anbors Anbore	Y Aupon		

N: N/A, not applicable



Hotline



Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 9 of 31

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.



Hotline

www.anbotek.com.cn

400-003-0500



182518C400012101 Report No.: FCC ID: 2A7VD-H6097 Page 10 of 31

1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Anbore	r Spojek	Aupoten	Anbactak
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
tek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3 _{off}	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Arbotek	Anborek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

Occupied Bandwidth

Maximum Conducted Output Power

Power Spectral Density

Emissions in non-restricted frequency bands

EIIIIS	sions in non-restricte	d frequency bands		, po,	br.	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1.nb	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A ribor	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05
Ani4otel	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-02-22	2025-02-21
50b	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

Hotline

www.anbotek.com.cn

400-003-0500



Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 11 of 31

	edge emissions (Ra sions in frequency ba		Anbore	Aupolek	Aupoter	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
100 to 10	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anborek	Anbotek
5 5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2024-05-06	2025-05-05
e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06

Emis	Emissions in frequency bands (below 1GHz)									
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date				
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22				
2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16				
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22				
And tel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11				
5nb	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	k Aupon	Albotek				







Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 12 of 31

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 3.18dBi. It complies with the standard requirement.





Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 13 of 31

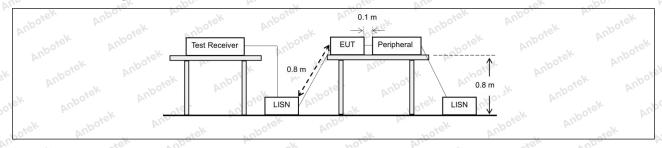
3. Conducted Emission at AC power line

Anbotek Anbotek	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator to public utility (AC) power line, the radiator to the section of the	that is designed to be con adio frequency voltage tha	nected to the at is conducted					
Test Requirement: back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).								
aborek Anbo	Frequency of emission (MHz)	Conducted limit (dBµV)						
all aboter	Anborek Anbore	Quasi-peak	Average					
Aupo, Wiek	0.15-0.5	66 to 56*	56 to 46*					
Test Limit:	0.5-5 rek papore American	56. Ant	46					
Arr. rek abote	5-30 m	60	50 And					
Aupon K Air	*Decreases with the logarithm of the	ne frequency.	b. Polek Aut					
Test Method:	ANSI C63.10-2020 section 6.2	Postek Vupose	Aug					
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli							

3.1. EUT Operation

Operating Envi	ronment:	Anborrak	Projek	Aupole.	And	anboick	Aupo
Test mode:	1: TX mode modulation		EUT in contin	uously transr	mitting mode w	ith GFSK	k Anbo

3.2. Test Setup





Hotline

www.anbotek.com.cn

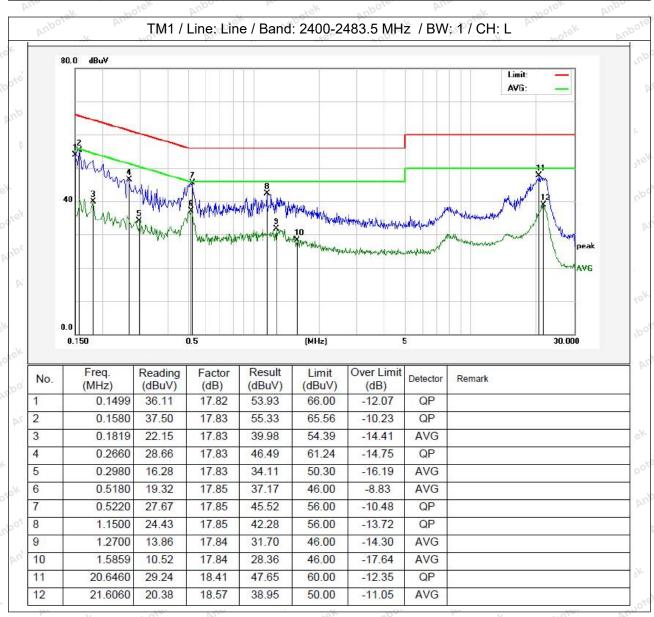
400-003-0500



Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 14 of 31

3.3. Test Data

1 (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		Temperature:	23.5 °C	Humidity:	57 %	Atmospheric Pressure:	101 kPa	
--	--	--------------	---------	-----------	------	-----------------------	---------	--



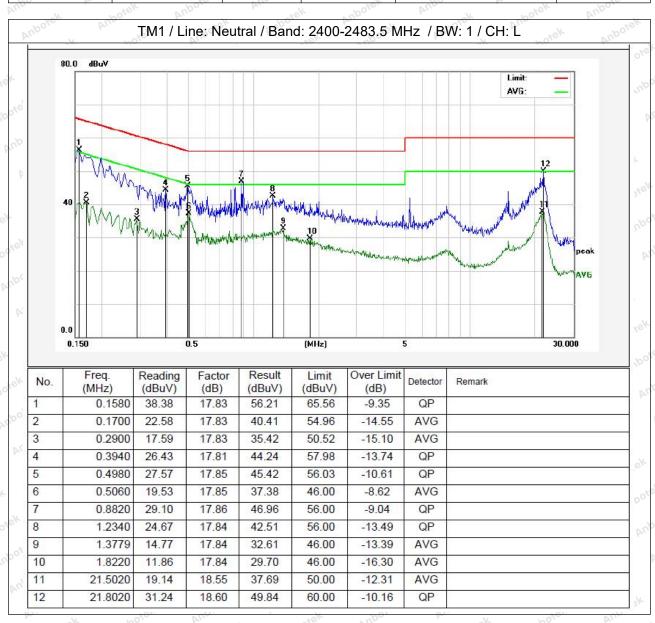






Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 15 of 31

Temperature: 23.5 °C Humidity: 57 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.









Report No.: 182518C400012101 Page 16 of 31

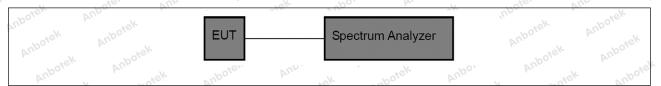
4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Anbotek Anbotek	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
	b) Set the VBW ≥ [3 × RBW]. c) Detector = peak.
	d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize.
Procedure:	g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value.
	11.8.2 Option 2
	The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function.
potek Anbotek Ar	When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

4.1. EUT Operation

Operating Envi	onment:	Vup. Liek	anbotek	Aupo,	Ai. hotek	Anborer	Vun
Test mode:	1: TX mod modulation	7.0	EUT in contir	nuously trans	smitting mode	with GFSK	iek Anbo

4.2. Test Setup









Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 17 of 31

4.3. Test Data

-1		- C/L ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	The second second	V 07	DI.	~0~	
- 1	Tomodesture	DE E °C	Lluppidity ()	110/	Atmoorbaria Draggura	101 kDa	
- 1	Temperature:	DZ0.0 U "	Humidity:	44 %	Atmospheric Pressure:	LIUTKPa	
- 1					7 10.11.00 0.10.10 1.0000 1.000		

Please Refer to Appendix for Details.





Report No.: 182518C400012101 Page 18 of 31

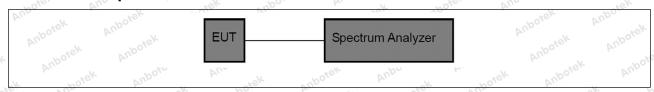
5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

5.1. EUT Operation

Opera	ating Envir	onment:	Anboick	Vupo.	botek	Anbore	Your	-otek	Dupo,
Test n	node:	1: TX mode: modulation.	Keep the El	JT in contin	uously transi	mitting mod	e with GF	SK Anbotek	P.L

5.2. Test Setup



5.3. Test Data

Temperature:	25.5 °C	Humidity:	44 %	Atmospheric Pressure:	101 kPa
Vice Ville	10.	-000	The state of the s	VII.	

Please Refer to Appendix for Details.



Hotline



Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 19 of 31

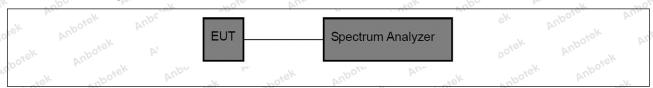
6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

6.1. EUT Operation

Operating Envir	onment:	abotek	Anbore	V	-otek	Anbotek	Aupo	.ak	abotek
Test mode:	1: TX modulat		p the EUT i	in contin	uously	transmitting r	mode with	GFSK	Anborek

6.2. Test Setup



6.3. Test Data

	Temperature:	25.5 °C	Humidity: 44 %	Vupo,	Atmospheric Pressure:	101 kPa	
10	Tomporataro.	_0.0	i i giriri arty i i i i i i		/ tarricopriorio i roccuro.	1011114	10.

Please Refer to Appendix for Details.





Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 20 of 31

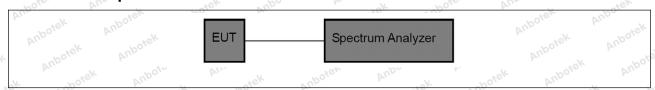
7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
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 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

7.1. EUT Operation

1/4	Operating Envir	onment:	Anboiek	Anbe	abotek	Anbore	-K DI	hotek	Anboi
0	Test mode:	1: TX mode: modulation.	Keep the El	JT in contin	uously trans	mitting mod	e with G	FSK Anborek	Pu

7.2. Test Setup



7.3. Test Data

Temperature:	25.5 °C	You	Humidity:	44 %	Atmospheric Pressure:	101 kPa

Please Refer to Appendix for Details.





Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 21 of 31

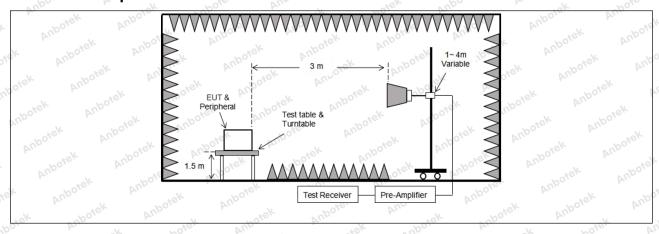
8. Band edge emissions (Radiated)

JD K		TOP OF	
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
tek Aupotek Aupo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
botek Anbe	0.490-1.705	24000/F(kHz)	30 Stek
tek aporen	1.705-30.0	30	30
	30-88	100 **	3ek anbore
	88-216	150 **	3
	216-960	200 **	300 Anto
	Above 960	500 Andrew	3 rek a
	frequency bands 54-72 MH However, operation within to sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-190 kHz, 110–490 kHz and a	ing under this section shall not be z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. In 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	470-806 MHz. ed under other and edges. measurements uency bands 9— ssion limits in
20, Bi	ANCI CC2 40 2020 ation	Corto Anbo, Ar	ik vupoje,
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		otek Anbotek
Procedure:	ANSI C63.10-2020 section	6.10.5.2 And a	otek Anbore

8.1. EUT Operation

Operating Envir	onment:					nbotek	VU
Test mode:	1: TX mode: Ke modulation.	eep the EUT i	n continuous	ly transmittin	g mode with (GFSK Amborek	\ <i>K</i>

8.2. Test Setup



Shenzhen Anbotek Compliance Laboratory Limited

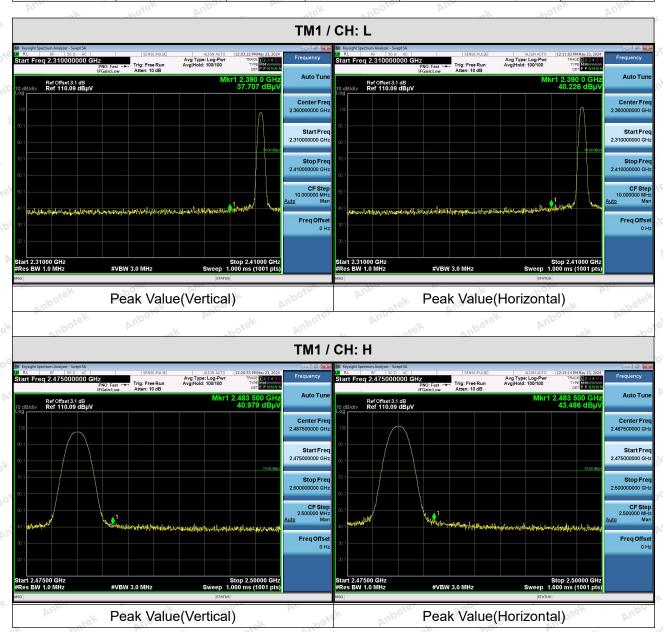




Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 22 of 31

8.3. Test Data

Temperature: 25.5 °C Humidity: 44 % Atmospheric Pressure: 101 kPa



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







Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 23 of 31

9. 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	oly with the
tek Anbotek Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
ok botek	0.009-0.490	2400/F(kHz)	300 000
upoje, Aug	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
And k hotek	30-88	100 **	3ek Anbore
	88-216	150 **	3
	216-960	200 **	3 ore Arre
	Above 960	500	3 rek hoc
		ragraph (g), fundamental emissi ing under this section shall not b	
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operatifrequency bands 54-72 MH However, operation within the sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasify 90 kHz, 110–490 kHz and a these three bands are base.	ing under this section shall not b lz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt	e located in the 470-806 MHz. ted under other band edges. measurements uency bands 9– ssion limits in
hotek Anbotek	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-90 kHz, 110–490 kHz and a these three bands are base detector.	ing under this section shall not be lz, 76-88 MHz, 174-216 MHz or these frequency bands is permitted as 15.231 and 15.241. The tighter limit applies at the being 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. ted under other band edges. measurements uency bands 9– ssion limits in
Anborek	intentional radiators operatifrequency bands 54-72 MH However, operation within the sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasify 90 kHz, 110–490 kHz and a these three bands are base.	ing under this section shall not be lz, 76-88 MHz, 174-216 MHz or these frequency bands is permitt § 15.231 and 15.241. In the tighter limit applies at the being the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing 6.6.4	e located in the 470-806 MHz. ted under other band edges. measurements uency bands 9– ssion limits in

9.1. EUT Operation

Operating Envi	ronment:					"Upolek	Ant
Test mode:	1: TX mode: Ke modulation.	eep the EUT ir	continuous	ly transmittir	ng mode with	GFSK Anborek	,k



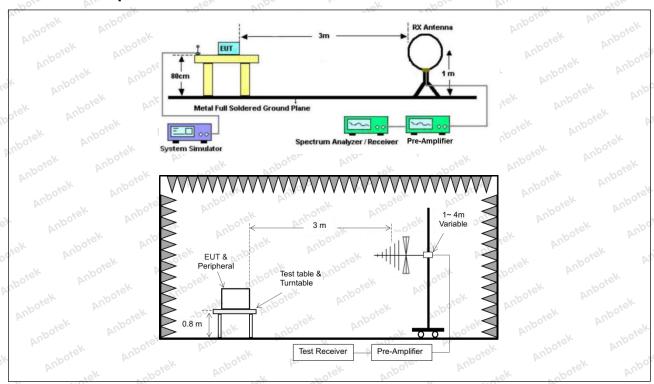
Hotline

www.anbotek.com.cn



Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 24 of 31

9.2. Test Setup





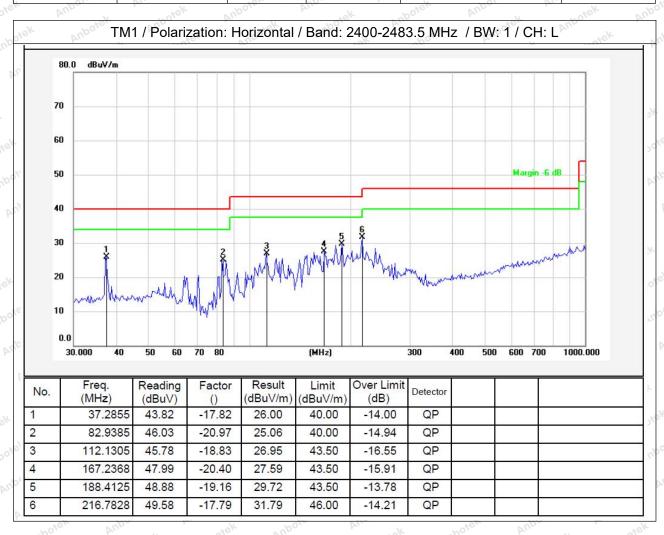


Page 25 of 31 Report No.: 182518C400012101 FCC ID: 2A7VD-H6097

9.3. 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.

- QV	·	100			160	V U/A	-V- WO
- DV. 1	22 5 00	- 47	1.1 1.124	10 0/2	taCl' A r	100°	1404 LD 10
lemperature:	1 23 500	D1.	Humidity:		Δtm	ospheric Press	sure: 101 kPa
Tomporature.	ZJ.8 C	1	i iuiiiiuity.	13 /0	W. Dulli	OSPITOTIO LITOSS	oule. Will kram



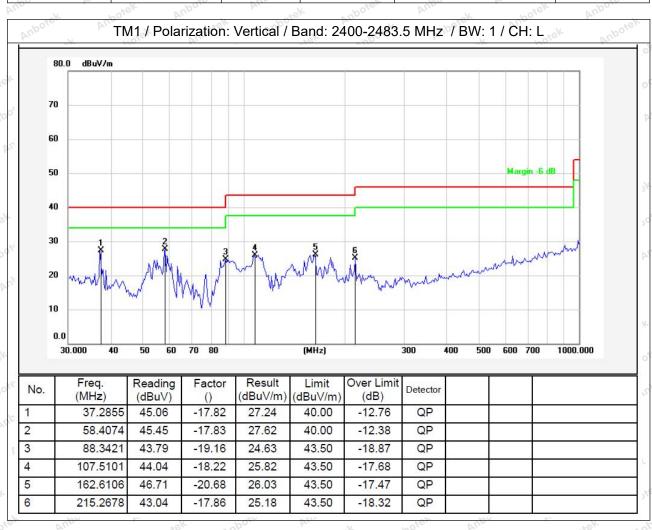






Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 26 of 31

Temperature: 23.5 °C Humidity: 49 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.









Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 27 of 31

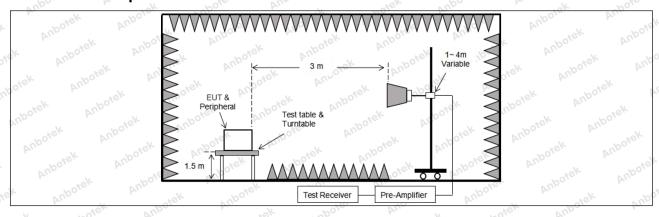
10. Emissions in frequency bands (above 1GHz)

apo k	Pole VIII	ten up	ak hore
Test Requirement:		ons which fall in the restricted bac omply with the radiated emission 5(c)).`	
k Aupotek Aupor	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
shorek Anbo	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3ek abote
	88-216	150 **	3
	216-960	200 **	300ter And
Anboys Air	Above 960	500 March Arton	3
	frequency bands 54-72 MH However, operation within to sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-190 kHz, 110–490 kHz and a these three bands are base.	ing under this section shall not be 1z, 76-88 MHz, 174-216 MHz or otherwise frequency bands is permitted as 15.231 and 15.241. The tighter limit applies at the being the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	470-806 MHz. red under other and edges. measurements uency bands 9– ssion limits in
botek Anb	detector.	rek spoter And	r Loiek
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		otek Anbotek
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore An	otek Anbore

10.1. EUT Operation

2,4	Operating Envir	onment:	Aupo.	W. Potek	Anbore	AND	ak abotek	An
lo.	Test mode:	1: TX mode: k modulation.	(eep the EUT	in continuous	sly transmittir	ng mode w	ith GFSK	ick

10.2. Test Setup









Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 28 of 31

10.3. Test Data

Temperature: 23.5 °C	Humidity: 49 %	Atmospheric Pressure:	101 kPa
----------------------	----------------	-----------------------	---------

Yu. ok	botek Anb	, ,	atek Anbore	An	of botek	Aupo
			TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	29.73	15.27	45.00	74.00	-29.00	Vertical
7206.00	29.57	18.09	47.66	74.00	-26.34	Vertical
9608.00	30.86	23.76	54.62	74.00	-19.38	Vertical
12010.00	Anboie * Ar	iek	potek Aup	74.00	otek Anbote	Vertical
14412.00	vupo,*k	Aupo Ck	hotek P	74.00	siek onb	Vertical
4804.00	29.28	15.27	44.55	74.00	-29.45	Horizontal
7206.00	30.57	18.09	48.66	74.00	-25.34	Horizontal
9608.00	28.66	23.76	52.42	74.00	-21.58	Horizontal
12010.00	lotek * Aupo	V	ek Vupose.	74.00	nbotek	Horizontal
14412.00	notek * An	DOLO. VILL	siek anbo	74.00	ok boje	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	18.00	15.27	33.27	54.00	-20.73	Vertical
7206.00	18.62	18.09	36.71	54.00	-17.29	Vertical
9608.00	20.33	23.76	44.09	54.00	-9.91	Vertical
12010.00	hote*	Yupose, Yu	iek on	54.00	V 100	Vertical
14412.00	Yun *	nbotek	Aupo.	54.00	Doles Yun	Vertical
4804.00	17.61	15.27	32.88	54.00	-21.12	Horizontal
7206.00	19.60	18.09	37.69	54.00	-16.31	Horizontal
9608.00	18.17,00 ¹⁶	23.76	41.93	54.00	-12.07	Horizontal
12010.00	dek *	otek Anbor	or rok	54.00	Vu _p	Horizontal
14412.00	*	wiek and	O. VILLE	54.00	Sk Vupo.	Horizontal





Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 29 of 31

sk Aupo.	A. atek	Aupore	Aur	botek	Aupo. W.	ojek .
		•	TM1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	29.28	15.42	44.70	74.00	-29.30	Vertical
7320.00	29.54	18.02	47.56	74.00	-26.44	Vertical
9760.00	30.36	23.80	54.16	74.00	-19.84	Vertical
12200.00	ek * sbotek	Vupor	Pr. Potek	74.00	Aug	Vertical
14640.00	* * *	ick Aupote	Anb	74.00	Aupo,	Vertical
4880.00	29.09	15.42	44.51	74.00	-29.49	Horizontal
7320.00	30.44	18.02	48.46	74.00	-25.54	Horizontal
9760.00	28.38	23.80	52.18	74.00	-21.82	Horizontal
12200.00	*oiek	Aupoter	Vuga sek	74.00	"Upo, by	Horizontal
14640.00	Ar*	nbotek	Anbox	74.00	Aupoter	Horizontal
Average value:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	18.09	15.42	33.51	54.00	-20.49	Vertical
7320.00	18.48	18.02	36.50	54.00	-17.50	Vertical
9760.00	20.18	23.80	43.98	54.00	-10.02	Vertical
12200.00	* Anbore	Dur. Olek	Anbotek	54.00	obořek	Vertical
14640.00	otek * Aupote	AUP	ek abotek	54.00	P. C. C. C.	Vertical
4880.00	17.72	15.42	33.14	54.00	-20.86	Horizontal
7320.00	19.95	18.02	37.97	54.00	-16.03	Horizontal
9760.00	18.47	23.80	42.27	54.00	00te -11.73 And	Horizontal
12200.00	AUP # JOH	Aup. rek	abořek	54.00	"otek D	Horizontal
14640.00	* "Otek	Pupos	Al. siek	54.00	Vuga CK	Horizontal







Report No.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 30 of 31

YUR YUR	Atek .	rupo.	br.	-pote.	AUG	riek
		•	TM1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.41	15.58	44.99	74.00	-29.01 ····	Vertical
7440.00	29.70	17.93	47.63	74.00	-26.37	Vertical
9920.00	31.06	23.83	54.89	74.00	-19.11	Vertical
12400.00	* wotek	Anbore.	AUR	74.00	Aupo,	Vertical
14880.00	* And	ek anbotek	Anbo	74.00	Anbore	Vertical
4960.00	29.23 And	15.58	44.81	74.00	-29.19	Horizontal
7440.00	30.65	17.93	48.58	74.00	-25.42	Horizontal
9920.00	28.76	23.83	52.59	74.00	-21.41	Horizontal
12400.00	VUD *	abotek	Vupo,	74.00	inpose. Aug	Horizontal
14880.00	W.A.	hotek	Aupoter	74.00	nbotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	19.21	15.58	34.79	54.00	-19.21	Vertical
7440.00	19.75	17.93	37.68	54.00	-16.32	Vertical
9920.00	20.83	23.83	44.66	54.00	-9.34	Vertical
12400.00	* * hotek	Aupo.	Potek	54.00	Aug	Vertical
14880.00	* * *	K Aupolo	And	54.00	Anbo	Vertical
4960.00	18.90	15.58	34.48	54.00	-19.52	Horizontal
7440.00	20.75	17.93	38.68	54.00	-15.32	Horizontal
9920.00	18.62	23.83	42.45	54.00	-11.55	Horizontal
12400.00	* tok	Anbore	Yun Stek	54.00	loo by	Horizontal
14880 00	Arra *	hotek	AUPO	54 00	VUPOLO VI	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.: 182518C400012101 FCC ID: 2A7VD-H6097 Page 31 of 31

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 -----

