

 Report No.: 182518C400002101
 FCC ID: 2A7VD-H61C3
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FCC Test Report

Applicant: Shenzhen Qianyan Technology LTDAddressNo.3301,Block C,Section 1,Chuangzhi
Yuncheng Building,Liuxian Avenue,Xili
Community, Xili Street, Nanshan District,
Shenzhen, 518000, ChinaProduct Name: Govee RGBIC LED Neon Rope Light for desks

Report Date : Jul. 04, 2024



Shenzhen Anbotek Compliance Laboratory Limited

Address:1/F.,Building D,Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 0755–26066440 Fax:(86) 0755–26014772 Email:service@anbotek.com





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TEST REPORT

Applicant	: Shenzhen Qianyan Technology LTD
Manufacturer	: Shenzhen Qianyan Technology LTD
Product Name	: Govee RGBIC LED Neon Rope Light for desks
Model No.	: H61C5, H61C2
Trade Mark	: Govee
Rating(s)	H61C2 Input: 24V- 1A : H61C5 Input: 24V- 2A

Test Standard(s) : FCC Part15 Subpart C, Section 15.247

Test Method(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 the FCC Part 15 Subpart C 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: Date of Test:

Prepared By

May 14, 2024 May 14 ~ 30, 2024

Nian xiu Chen

(Nianxiu Chen)

Approved & Authorized Signer

Idward pan

(Edward Pan)

Shenzhen Anbotek Compliance Laboratory Limited

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Revision History

Report Version	Description	Issued Date			
R00	Original Issue.	Jul. 04, 2024			
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Note 1:

This is a Class II application which was based on the original report 18220WC30109501. The difference between the original device and current one described as following:

1. Add a adapter(YXTG24US-2401000) for model H61C2.

The changes will not related with the other RF parameters, only conducted emission and radiation spurious emission testing for model H61C2 with adapter(YXTG24US-2401000).

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1. General Information

1.1. Client Information

Ар	plicant	:	Shenzhen Qianyan Technology LTD
Ad	dress	:	No.3301,Block C,Section 1,Chuangzhi Yuncheng Building,Liuxian Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China
Ma	anufacturer	:	Shenzhen Qianyan Technology LTD
Ad	dress	:	No.3301,Block C,Section 1,Chuangzhi Yuncheng Building,Liuxian Avenue,Xili Community, Xili Street, Nanshan District, Shenzhen, 518000, China

1.2. Description of Device (EUT)

Product Name	:	Govee RGBIC LED Neon Rope Light for desks
Model No.	:	H61C5, H61C2 (Note: All samples are the same except the model number, Lamp strip length and input.)
Trade Mark	:	Govee house hubble hubb
Test Power Supply	:	AC 120V, 60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter(H61C5 for Light strip length 5m)	:	Model No.: CW2402000US Input: 100-240V~50/60Hz 1.2A MAX Output: 24V 2000mA
Adapter(H61C2 for	:	Model No.: Bl24GL-240100-AdU Input: 100-240V~50/60Hz 0.8A Output : 24V 1A
Light strip length 2m)	:	Model: YXTG24US-2401000 Input: 100-240V~, 0.8A Max 50/60Hz Output: 24.0V 1.0A 24.0W
RF Specification		
Operation Mode	:	⊠ BT BLE
Support Rate	:	⊠ 1Mbps □ 2Mbps
Operation Frequency	:	2402~2480MHz
Number of Channel	:	40 Channels

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Modulation Type	:	GFSK	Anboto	Anbotek	Anbotek	Anburgetek
Antenna Type	:	PCB Antenna	K botek	Anbotek	Anbore	Annbotek
Antenna Gain(Peak)	:	4.51 dBi	An Anbote	Anboten	Anbo bote	k Anbotek
Domorty 1) All of the		ana dification are provi	dod by quotom	or 2) For a m	are detailed f	actures

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

Description		Rating(s)							
-An-	abotel	- Aupo	V. P	Hotek	Anbore	Dun	No.	aboten	AUPO

1.4. Description of Test Configuration

Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2402	09	2420	18	2438	27	2456	36	2474
2404	a 10 🔊	2422	19	2440	28	2458	37	2476
2406	o ^{te^x11}	2424	20	2442	29 🕅	2460	38	2478
2408	12	2426	21	2444	30	2462	39	2480
2410	13	2428	22	2446	31	2464		otel
2412	14	2430	23	2448	32	2466		
2414	15	2432	24	2450	33,000	2468		
2416	16	2434	25	2452	34 📈	2470		
2418	17	2436	26	2454	35	2472		
	(MHz) 2402 2404 2406 2408 2410 2412 2414 2416	(MHz)Channel240209240410240611240812241013241214241415241616	(MHz)Channel (MHz)24020924202404102422240611242424081224262410132428241214243024141524322416162434	(MHz)Channel (MHz)Channel (MHz)240209242018240410242219240611242420240812242621241013242822241214243023241415243224241616243425	(MHz)Channel(MHz)Channel(MHz)24020924201824382404102422192440240611242420244224081224262124442410132428222446241214243023244824141524322424502416162434252452	(MHz)Channel (MHz)Channel (MHz)(MHz)Channel (MHz)240209242018243827240410242219244028240611242420244229240812242621244430241013242822244631241214243023244832241415243224245033241616243425245234	(MHz)Channel(MHz)Channel(MHz)Channel(MHz)24020924201824382724562404102422192440282458240611242420244229246024081224262124443024622410132428222446312464241214243023244832246624141524322424503324682416162434252452342470	(MHz)Channel(MHz)Channel(MHz)Channel(MHz)Channel2402092420182438272456362404102422192440282458372406112424202442292460382408122426212444302462392410132428222446312464241214243023244832246624141524322424503324682416162434252452342470

Note:

1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

2. EUT was tested with channel 0, 19 and 39.

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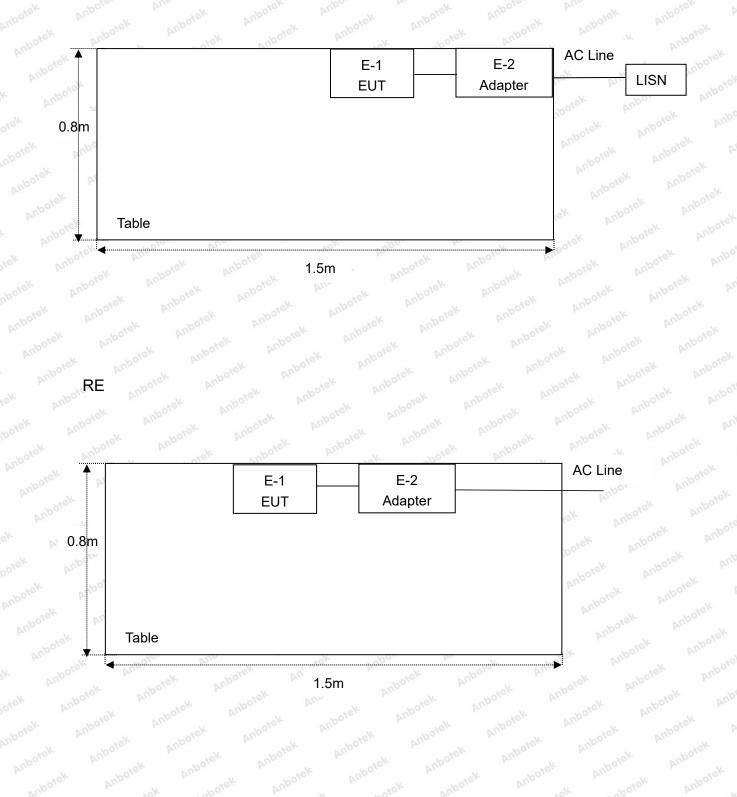




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1.5. Description Of Test Setup



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1.6. Test Equipment List

14	E united and	Manufation		O a mi a l N la		O al Jutamus
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
Anbc 1. Ar	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Jan. 18, 2024	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	Jan. 17, 2024	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jan. 17, 2024	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 23, 2024	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	Jan. 17, 2024	1 Year
A Toot	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Oct. 12, 2023	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Jan. 17, 2024	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	hindre N/A Ant	N/A	et N/A potek	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 16, 2023	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	May. 06, 2024	1 Year

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1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB

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.

1.8. 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.

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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.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(3)	Conducted Peak Output Power	PASS

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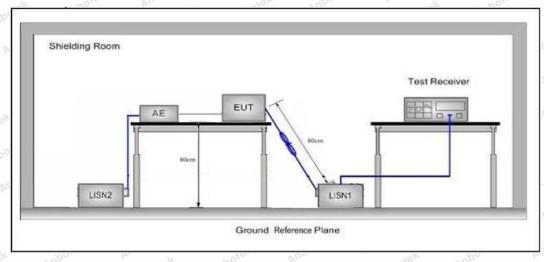
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.2	07	hotek Anbore Ant
	Fraguanay	Maximum RF L	ine Voltage (dBuV)
	Frequency	Quasi-peak Level	Average Level
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56 State	46 Million 46
	5MHz~30MHz	60	50

(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan all modes, only the worst case is recorded in the report. Please to see the following pages.

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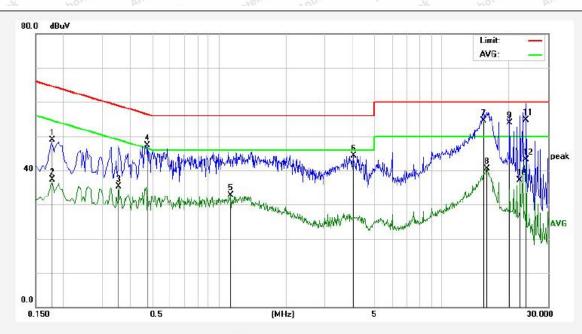


Anbotek Product Safety

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Conducted Emission Test Data

Test Site: Operating Condition: Test Specification: Comment: Temp.(°C)/Hum.(%RH): Model Data 1# Shielded Room 2440MHz AC 120V, 60Hz for Adapter Live Line 23.5℃/57%RH H61C2 with adapter YXTG24US-2401000



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark	
1	0.1780	31.15	17.82	48.97	64.57	-15.60	QP		
2	0.1780	19.51	17.82	37.33	54.57	-17.24	AVG		
3	0.3540	17.48	17.82	35.30	48.87	-13.57	AVG		
4	0.4780	29.55	17.85	47.40	56.37	-8.97	QP		
5	1.1340	14.86	17.86	32.72	46.00	-13.28	AVG		
6	4.0180	26.39	17.85	44.24	56.00	-11.76	QP		
7	15.4660	36.25	18.16	54.41	60.00	-5.59	QP		
8	15.96 <mark>60</mark>	22.27	18.18	40.45	50.00	-9.55	AVG		
9	20.2500	35.56	18.29	53.85	60.00	-6.15	QP		
10	22.4980	18.78	18.39	37.17	50.00	-12.83	AVG		
11	24.0020	36.24	18.45	54.69	60.00	-5.31	QP		
12	24.0020	24.69	18.45	43.14	50.00	-6.86	AVG		

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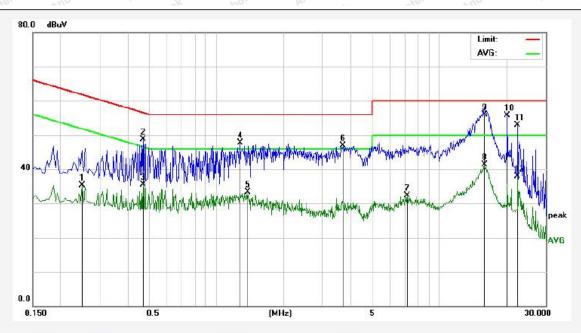


Anbotek Product Safety

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Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	2440MHz
Test Specification:	AC 120V, 60Hz for Adapter
Comment:	Neutral Line
Temp.(℃)/Hum.(%RH):	23.5℃/57%RH
Model	H61C2 with adapter YXTG24US-2401000



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark	
1	0.2500	17.51	17.82	35.33	51.75	-16.42	AVG		
2	0.4700	30.80	17.85	48.65	56.51	-7.86	QP		
3	0.4700	17.67	17.85	35.52	46.51	-10.99	AVG		
4	1.2780	29.75	17.86	47.61	56.00	-8.39	QP		
5	1.3860	15.37	17.86	33.23	46.00	-12.77	AVG		
6	3.7060	29.02	17.86	46.88	56.00	<mark>-9.12</mark>	QP		
7	7.2060	14.32	17.90	32.22	50.00	-17.78	AVG		
8	15.9340	23.08	18.18	41.26	50.00	-8.74	AVG		
9	16.0260	37.65	18.18	55.83	60.00	-4.17	QP		
10	20.2500	37.32	18.29	55.61	60.00	-4.39	QP		
11	22.4980	34.42	18.39	52.81	60.00	-7.19	QP		
12	22.4980	19.59	18.39	37.98	50.00	-12.02	AVG		

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4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

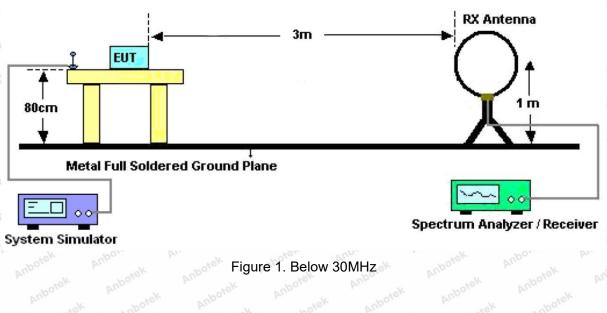
Test Standard	FCC Part15 C Section 1	5.209 and 15.205	otek nab	otek Anbot	ok pote
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	(ubuv/iii)	Ano	300
	All All	hoter Ano	Am-	Anboten	PU.
	0.490MHz-1.705MHz	24000/F(kHz)	AUD Old	Thotek	30
	1.705MHz-30MHz	30	oter - Anbo	rek hote	30
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	otek 3 Anbote
	88MHz~216MHz	150	43.5	Quasi-peak	nbotek 3 Anbo
	216MHz~960MHz	200	46.0	Quasi-peak	hubor 3 M
	960MHz~1000MHz	500	54.0	Quasi-peak	3.04
	Above 1000MHz	500	54.0	Average	3 botek
		And notek A	bote ^k 74.0 pm ^{b0}	Peak	ptek 3 Anbote

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup



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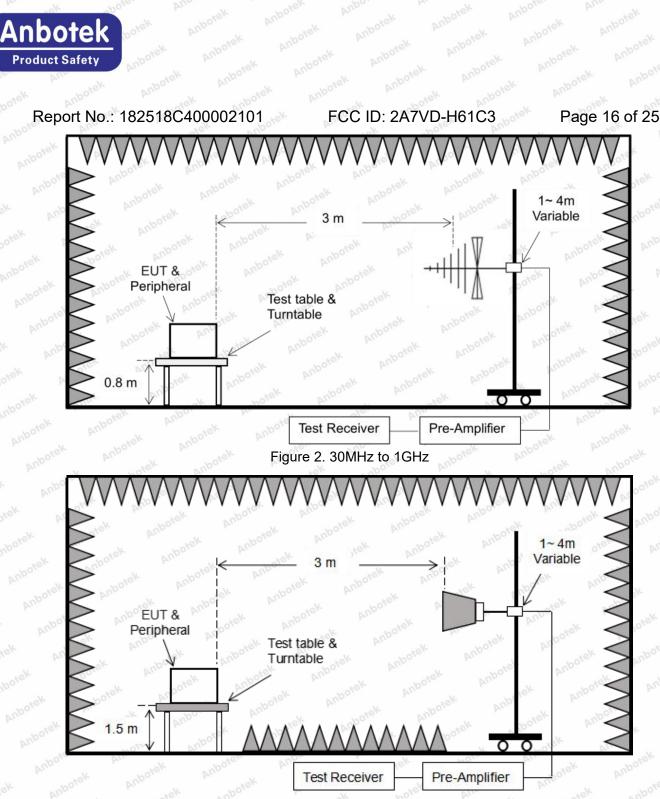


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

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For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as: RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as: RBW = 100kHz, VBW =300kHz,Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz,Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

For average measurement:

-VBW=10Hz, When duty cycle is no less than 98 percent

–VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.4 duty cycle.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

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

During the test, pre-scan all modes, only the worst case is recorded in the report.

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Test Results	(30~1000MHz)
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Test Mode:	2440MHz
Power Source:	AC 120V, 60Hz for Adapter
Polarization:	Horizontal
Temp.(℃)/Hum.(%RH):	23.5°C/49%RH
Model	H61C2 with adapter YXTG24US-2401000



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	50.7637	32.99	-17.41	15.58	40.00	-24.42	QP			
2	85.8984	46.69	- <mark>19</mark> .97	26.72	40.00	-13.28	QP			
3	131.7577	48. <mark>4</mark> 1	-21.21	27.20	43.50	-16.30	QP			
4	171.9946	47.28	-20.12	27.16	43.50	<mark>-16.34</mark>	QP			
5	196.5098	48.30	-18.69	29.61	43.50	-13.89	QP			
6	275.1570	45.97	-15.86	30.11	46.00	-15.89	QP			

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2440MHz
AC 120V, 60Hz for Adapter
Vertical
23.5℃/49%RH
H61C2 with adapter YXTG24US-2401000



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	36.0007	46.34	-18.15	28.19	40.00	-11.81	QP			
2	84.1100	46.55	-20.57	25.98	40.00	- <mark>14.0</mark> 2	QP			
3	115.3205	47.90	-19.25	28.65	43.50	-14.85	QP			
4	176.8878	43.67	-19.84	23.83	43.50	-19.67	QP			
5	240.8304	43.22	-16.81	26.41	46.00	-19.59	QP			
6	612.0642	32.99	-8.94	24.05	46.00	-21.95	QP			

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rest Results (Te	5HZ-25GHZ)	Anbo'	pir	boten	And	tek
Fest Mode: CH00)		Test channel:	Lowest		
Peak value:			L			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.30	15.27	43.57	74.00	-30.43	Vertical
7206.00	28.39	18.09	46.48	74.00	-27.52	Vertical
9608.00	29.19	23.76	52.95	74.00	-21.05	Vertical
12010.00	otek * Anbo	N NO	ek Anbore	74.00	t abotek	Vertical
14412.00	botek * Ant	oro Ano	stek unbo	74.00	where the short	Vertical
4804.00	27.98	15.27	43.25	74.00	-30.75	Horizontal
7206.00	28.86	18.09	46.95	74.00	-27.05	Horizontal
9608.00	28.05	23.76	51.81	74.00	-22.19	Horizontal
12010.00	*nboits	Annotek	Anboten	74.00	abotek	Horizontal
14412.00	tek * nbote	AUP	t botek	74.00	Ann stek	Horizontal
Average value: Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.57	15.27	31.84	54.00	-22.16	Vertical
7206.00	17.44	18.09	35.53	54.00	-18.47	Vertical
9608.00	18.66	23.76	42.42	54.00	-11.58	Vertical
12010.00	botek * Anb		otek Anbot	54.00	ek nbote	Vertical
14412.00	abotel* P	ipolo pin	stek an	54.00	tot to	Vertical
4804.00	16.31	15.27	31.58	54.00	-22.42	Horizontal
7206.00	17.89	18.09	35.98	54.00	-18.02	Horizontal
9608.00	17.56	23.76	41.32	54.00	-12.68	Horizontal
12010.00	ek * Anbor	w hote	Anboten	54.00	abotek	Horizontal
14412.00	otek * anbo	te. And	lek store	54.00	K wotek	Horizontal

Test Results (1GHz-25GHz)

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est Results (1G	HZ-25GHZ)	unboro.	Alt	-boter	Anb	atek.
est Mode: CH19)		Test channel:	Middle		
eak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatior
4880.00	27.85	15.42	43.27	74.00	-30.73	Vertical
7320.00	28.36	18.02	46.38	74.00	-27.62	Vertical
9760.00	28.69	23.80	52.49	74.00	-21.51	Vertical
12200.00	otek * Anbor	N NO	ek anbore	74.00	t abotek	Vertical
14640.00	hotek * Ant	Pote. Pur	stek sabe	74.00	ak not	Vertical
4880.00	27.79	15.42	43.21	74.00	-30.79	Horizontal
7320.00	28.73	18.02	46.75	74.00	-27.25	Horizontal
9760.00	27.77	23.80	51.57	74.00	-22.43	Horizontal
12200.00	*nbore	Amotek	unbotek	74.00	botek	Horizontal
14640.00	tek * nbote	Ano	t botek	74.00	pri.	Horizontal
Average value: Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatior
4880.00	16.66	15.42	32.08	54.00	-21.92	polarization
7320.00	17.30	18.02	35.32	54.00	-18.68	Vertical
9760.00	18.51	23.80	42.31	54.00	-11.69	Vertical
12200.00	botek * Anb	. k.	otek Anbot	54.00	ek nbote	Vertical
14640.00	botel* P	upore An	stek on	54.00	de Hor	Vertical
4880.00	16.42	15.42	31.84	54.00	-22.16	Vertical
7320.00	18.24	18.02	36.26	54.00	-17.74	Horizontal
9760.00	17.86	23.80	41.66	54.00	-12.34	Horizontal
12200.00	ek * Anbore	K Put	k anbotek	54.00	abotek	Horizontal
14640.00	stek * nho	ter Ano	where the start	54.00	w his stel	Horizontal

Test Results (1GHz-25GHz)

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est Mode: CH3	9		Test channel:	Highest		
eak value:			1			
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarizatior
4960.00	27.98	15.58	43.56	74.00	-30.44	Vertical
7440.00	28.52	17.93	46.45	74.00	-27.55	Vertical
9920.00	29.39	23.83	53.22	74.00	-20.78	Vertical
12400.00	otek * Anbor	k hu.	lek Anbote	74.00	r abotek	Vertical
14880.00	hotek * Ant	oto. Ann	stek sabe	74.00	at hor	Vertical
4960.00	27.93	15.58	43.51	74.00	-30.49	Horizontal
7440.00	28.94	17.93	46.87	74.00	-27.13	Horizontal
9920.00	28.15	23.83	51.98	74.00	-22.02	Horizontal
12400.00	*nbone	Americk	Anboten	74.00	botek	Horizontal
14880.00	rek * anbore	Ano	ek obotek	74.00	At. wotek	Horizontal
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	17.78	15.58	33.36	54.00	-20.64	Vertical
7440.00	18.57	17.93	36.50	54.00	-17.50	Vertical
9920.00	19.16	23.83	42.99	54.00	-11.01	Vertical
12400.00	botek * Anb	N M	otek Anbot	54.00	ek nbote	Vertical
14880.00	botel* P	iboro An	stek on	54.00	ion Her	Vertical
4960.00	17.60	15.58	33.18	54.00	-20.82	Horizontal
7440.00	19.04	17.93	36.97	54.00	-17.03	Horizontal
9920.00	18.01	23.83	41.84	54.00	-12.16	Horizontal
12400.00	ek * Anbore	K Lote	k Anboten	54.00	obotek	Horizontal
14880.00	× * 50	le. Vup	20	54.00	p. V	Horizontal

Remark:

1.Result =Reading + Factor

2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

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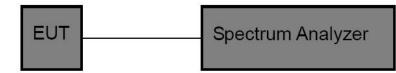
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5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Se	ction 15.247 (b)(3)	pu	Anbore	Ann
Test Limit	1W (30dBm)	botek	Anbort	Pur	stek Anbotek	AUPO

5.2. Test Setup



5.3. Test Procedure

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- 1. Set the RBW ≥DTS bandwidth.
- Set the VBW≥3*RBW.
- 3. Set the span≥ 3*RBW.
- 4. Detector = peak.
- 5. Sweep time = auto couple.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use peak marker function to determine the peak amplitude level.

5.4. Test Data

Pass

Note: For pre-scan, the result is equal to original, so the original data is referenced.

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
botek	Anboro	2402	2.39	≤30	PASS
BLE_1M Ant1	2440	6.01	≤30	PASS	
	nbotek	2480	2.37	≤30	PASS

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6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c)
Requirement	 1) 15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

6.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 4.51dBi. It complies with the standard requirement.

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APPENDIX I -- TEST SETUP PHOTOGRAPH

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

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 -----

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