

TEST REPORT

Applicant Name: SHENZHEN HUAPTEC CO., LTD
Address: 3rd FL,E BLDG, Sogood Science Park, SanWei community,
Hangcheng Street, Bao'an District, Shenzhen, China
Report Number: 2604T01718E-RF-00E
FCC ID: OWWC015235SR

Test Standard (s)

47 CFR §2.1091

Sample Description

Product Name: Signal Booster
Model No.: C30G-5S-BTW, C30G-5S-BTW.RV, C30G-5S-BTW.RM,
C30G-5S-BTW.TRUCK, C30G-5S-BTW.EX
Trade Mark: HiBoost
Received Date: 2026-05-26
Report Date: 2026-07-27

Test Result:	The EUT complied with the standards above.
--------------	--

Prepared and Checked By:

Benny Li

Benny Li
Engineer

Approved By:

Bob. Liao

Bob.Liao
Supervisor

Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked. This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Bay Area Compliance Laboratories Corp. (Shenzhen, Guangming)

Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Tel: +86 755-26503290

Web: www.baclcorp.com.cn

TABLE OF CONTENTS

DOCUMENT REVISION HISTORY 3

GENERAL INFORMATION 4

 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) 4

 OBJECTIVE 5

 TEST FACILITY 5

MAXIMUM PERMISSIBLE EXPOSURE (MPE) 6

 APPLICABLE STANDARD..... 6

 CALCULATED RESULT..... 7

EXHIBIT A-EUT PHOTOGRAPHS 8

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2604T01718E-RF-00E	Original Report	2026-07-27

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product Name	Signal Booster
Tested Model	C30G-5S-BTW
Multiple Model	C30G-5S-BTW.RV, C30G-5S-BTW.RM, C30G-5S-BTW.TRUCK, C30G-5S-BTW.EX
Voltage Range [#]	DC 12V from adapter or DC 9-36V Car charger
Adapter Information [#]	Model: GM39-120300-1A Input: 100-240V~ 50/60Hz 1.5A Output: 12.0V ---3.0A
Car Charger Information [#]	Input: DC 9-36V Output: DC 5.0V ---3.5A(USB Port) DC 9-36V/3A(DC cable)

Note: Model Difference[#]: About all models, the amplifiers are the same, but the model names, antennas and accessories are different. For example:

- C30G-5S-BTW: Car Charger + Magnetic Antenna + Panel Antenna
- C30G-5S-BTW.RV / C30G-5S-BTW.RM:
Adapter + Car Charger + Outside Omni-Directional Antenna + 26ft Cable + Magnetic Antenna
- C30G-5S-BTW.TRUCK / C30G-5S-BTW.EX:
Car Charger + Outside Omni-Directional Antenna + 15ft Cable + Panel Antenna

Please refer to DOS letter for details.

Note 2[#]: The NMO antenna is an alternative option and may be used for other models.

Frequency Range	Bluetooth/BLE: 2402-2480MHz 2.4G Wi-Fi: 2412-2462MHz	
	Booster Operating frequency bands	
	Uplink	Downlink
	698 ~ 716MHz	728 ~ 746MHz
	776 ~ 787MHz	746 ~ 757MHz
	824 ~ 849 MHz	869 ~ 894 MHz
	1850 ~ 1915MHz	1930 ~ 1995MHz
	1710 ~ 1755MHz	2110 ~ 2155MHz
Antenna Specification	External Antenna (Please refer to the following tables for details.)	
Sample Serial Number	3MLO-1(Assigned by BACL, Shenzhen, Guangming)	
Sample/EUT Status	Good condition	

Outside Antenna Information:

Frequency Range (MHz)	Omni-directional antenna(with cable) and Cables			NMO Antenna and Cables			Magnetic antenna with Cable
	Gain + Cable loss (dBi)	26ft Cable Loss (dB)	15ft Cable Loss (dB)	Gain (dBi)	6.6ft Cable Loss (dB)	13.1ft Cable Loss (dB)	Gain + Cable loss (dBi)
698-716	2	2.3	1.33	-1.5	0.58	1.16	-2
776-787	2	2.38	1.37	-1.5	0.6	1.2	-1.5
824-849	2	2.51	1.45	-1	0.64	1.26	-1
1850-1915	5	3.84	2.22	1	0.93	1.85	0
1710-1755	4	3.68	2.12	0	0.97	1.93	0

Note 1: The antenna gain and cable loss list above was provided by applicant.

Note 2: The maximum gain antenna is Omni-directional antenna with cable.

Inside Antenna Information:

Frequency Range (MHz)	Vehicle-mounted Magnetic antenna with cable	Panel antenna with cable
	Gain + Cable loss (dBi)	Gain + Cable loss (dBi)
728-746	-2	-2
746-757	-1.5	-1.5
869-894	-1	-1
1930-1995	0	0
2110-2155	0	0
2402-2480	1.5	1.5
2412-2462	1.5	1.5

Note: The antenna gain and cable loss list above was provided by applicant.

Objective

This test report is in accordance with Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with 47 CFR §2.1091 rules.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen, Guangming) to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (Minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

MPE Calculated Formulary:

- Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

- For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Result

(worst case)

Radio	Frequency (MHz)	Antenna Gain [#]		Tune up conducted power [#]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
UL	698-716	2	1.58	20.4	109.65	20	0.0346	0.465
	776-787	2	1.58	20.7	117.49	20	0.0370	0.517
	824-849	2	1.58	20.0	100.00	20	0.0315	0.549
	1850-1915	5	3.16	22.0	158.49	20	0.0997	1.0
	1710-1755	4	2.51	18.8	75.86	20	0.0379	1.0
DL	728-746	-2	0.63	-5.5	0.28	20	0.00004	0.485
	746-757	-1.5	0.71	-5.0	0.32	20	0.00004	0.497
	869-894	-1	0.79	-5.5	0.28	20	0.00004	0.579
	1930-1995	0	1.00	-5.0	0.32	20	0.0001	1.0
	2110-2155	0	1.00	-5.0	0.32	20	0.0001	1.0
2.4G Wi-Fi	2412-2462	1.5	1.41	20.8	120.23	20	0.0338	1.0
BLE	2402-2480	1.5	1.41	4.0	2.51	20	0.0007	1.0
BT	2402-2480	1.5	1.41	6.8	4.79	20	0.0013	1.0

Note 1: The turn up conducted power and antenna gain were declared by the applicant.

Note 2: The gains shown in the above table are all the maximum values.

Note 3: The Bluetooth and 2.4G Wi-Fi can't transmission simultaneously

Note 4: The Bluetooth or 2.4G Wi-Fi can transmission simultaneously with Booster.

Simultaneous transmitting consideration (worst case):

The ratio= 2.4G Wi-Fi/Limit + Booster/Limit

= 0.0338/1+ 0.0997/1

= 0.1335

<1.0

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment No.1 2604T01718E-RF EUT External Photos and Attachment No.2 2604T01718E-RF EUT Internal Photos.

***** END OF REPORT *****