

SAR TEST EXCLUSION EVALUATION REPORT

Product Name: Wireless gaming controller

Trade Mark: turbX

Model No. / HVIN: BSP-S03

Add. Model No. / HVIN: BSP-S04, BSP-S05, turbX-A01, turbX-A02, mini-01, mini-s01, mini-02

Report Number: 2310267572RFC-2

Test Standards: FCC 47 CFR Part 2.1093

FCC ID: 2BDCYTURBX01

Test Result: PASS

Date of Issue: November 16, 2023

Prepared for:

targettap, Inc
505W 47th street, 5CS

Prepared by:

Shenzhen UnionTrust Quality and Technology Co., Ltd.
Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and
technology park, Longhua district, Shenzhen, China

TEL: +86-755-2823 0888

FAX: +86-755-2823 0886

Prepared by:



David Chen
Senior Project Engineer

Reviewed by:



Henry Lu
Team Leader

Approved by:



Kevin Liang
Assistant Manager

Date: November 16, 2023

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-RSS102-V1.1

Version

Version No.	Date	Description
V1.0	November 16, 2023	Original



Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-RSS102-V1.1

CONTENTS

1. GENERAL INFORMATION	4
1.1 CLIENT INFORMATION	4
1.2 EUT INFORMATION	4
1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	4
1.4 OTHER INFORMATION.....	4
1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS	4
1.6 DEVIATION FROM STANDARDS	4
1.7 ABNORMALITIES FROM STANDARD CONDITIONS.....	5
1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER	5
2. EQUIPMENT LIST	5
3. SAR TEST EXCLUSION EVALUATION	6
3.1 REFERENCE DOCUMENTS FOR EVALUATION	6
3.2 EXEMPTION LIMITS FOR ROUTINE EVALUATION – SAR EVALUATION	6
3.2.1 SAR TEST EXCLUSION THRESHOLD.....	6
3.2.2 TEST PROCEDURE	7
3.3 MPE CALCULATION RESULTS	7
3.3.1 FOR BT	7
APPENDIX 1 PHOTOS OF TEST SETUP.....	8
APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS.....	8

1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	targettap, Inc
Address of Applicant:	505W 47th street, 5CS
Manufacturer:	Shanghai Fengpai Network Technology Co., Ltd
Address of Manufacturer:	Room 128, 5th Floor, Building T2, Everbright Anshi Center, No. 398 Huoshan Road, Yangpu District, Shanghai

1.2 EUT INFORMATION

Product Name:	Wireless gaming controller	
Model No. / HVIN:	BSP-S03	
Add. Model No. / HVIN:	BSP-S04, BSP-S05, turbX-A01, turbX-A02, mini-01, mini-s01, mini-02	
Trade Mark:	turbX	
DUT Stage:	Identical Prototype	
EUT Supports Function:	2.4 GHz ISM Band:	Bluetooth 5.0 (Only support LE)
Software Version:	V1.0.02 (Provided by the customer)	
Hardware Version:	V1.3 (Provided by the customer)	
Sample Received Date:	October 26, 2023	
Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.		

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

For BT_EDR	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth LE
Type of Modulation:	GFSK
Number of Channels:	40
Channel Separation:	2 MHz
Antenna Type: (Provided by the customer)	PCB Antenna
Antenna Gain: (Provided by the customer)	2.8 dBi

1.4 OTHER INFORMATION

None.

1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 2.1093

All test items have been performed and recorded as per the above standards

1.6 DEVIATION FROM STANDARDS

None.

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China

Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

UTTR-RF-RSS102-V1.1

1.7 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

2. EQUIPMENT LIST

Please refer to the RF test report (Report No.: 2310267572RFC-1).



3. SAR TEST EXCLUSION EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

No.	Identity	Document Title
1	FCC 47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices.
3	KDB 447498 D01 General RF Exposure Guidance v06	RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES

3.2 EXEMPTION LIMITS FOR ROUTINE EVALUATION – SAR EVALUATION

3.2.1 SAR Test Exclusion Threshold

3.2.1.1 KDB 447498 D01 v06

Appendix A

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	<i>SAR Test Exclusion Threshold (mW)</i>
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

MHz	30	35	40	45	50	mm
150	232	271	310	349	387	SAR Test Exclusion Threshold (mW)
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

Note: 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

3.2.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.3 MPE CALCULATION RESULTS

Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3.3.1 For BT

For BT_LE function, operating at 2402MHz to 2480 MHz for GFSK

3.3.1.1 Antenna Type:

FPCB antenna

3.3.1.2 Antenna Gain:

2402MHz to 2480 MHz: 2.8 dBi

3.3.1.3 Results for FCC 47 CFR Part 2.1093

Operating Mode	Frequency	Tune-up Power (Average)	Tolerance	Maximum Tune-up Power		Separation Distance	SAR Test Exclusion Threshold
	(MHz)	(dBm)	(dBm)	(dBm)	(mW)	(mm)	(mW)
LE	2402-2480	-7.5	1	-6.5	0.2239	5	10

So the transmitter complies with the RF exposure requirements and the SAR is not required.

APPENDIX 1 PHOTOS OF TEST SETUP

N/A

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal Photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.
