



Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640

Fax: +86-755-26648637

Website: www.cqa-cert.com

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TEST REPORT

Report No. : CQASZ20250300571E-03
Applicant: Shenzhen Buzz Tech CO., LTD
Address of Applicant: 10th Floor, Guang Chang Bldg, 74#, BaoMin 1st Rd, Bao An
Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Smart glasses
Model No.: G01
Test Model No.: G01
Brand Name: N/A
FCC ID: 2AGFW-G01
47 CFR Part 1.1307
Standards: 47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2025-02-25
Date of Test: 2025-02-25 to 2025-03-17
Date of Issue: 2025-4-25
Test Result : PASS

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Timo Lei

(Timo Lei)

Approved By:

Jack Ai

(Jack Ai)



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1. Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250300571E-03	Rev.01	Initial report	2025-4-25

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3. General Information

4. Client Information

Applicant:	Shenzhen Buzz Tech CO., LTD
Address of Applicant:	10th Floor, Guang Chang Bldg, 74#, BaoMin 1st Rd, Bao An Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Buzz Tech CO., LTD
Address of Manufacturer:	10th Floor, Guang Chang Bldg, 74#, BaoMin 1st Rd, Bao An Shenzhen, Guangdong, China
Factory:	Shenzhen Buzz Tech CO., LTD
Address of Factory:	10th Floor, Guang Chang Bldg, 74#, BaoMin 1st Rd, Bao An Shenzhen, Guangdong, China

5. General Description of EUT

Product Name:	Smart glasses
Model No.:	G01
Test Model No.:	G01
Trade Mark:	N/A
Software Version:	V01
Hardware Version:	V6
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK
Transfer Rate:	1Mbps/2Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	Ceramic antenna
Antenna Gain:	3dBi
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Power Supply:	Li-ion battery: DC 3.7V 105mAh, 0.39Wh Charge by DC 5V for adapter

RF Exposure Evaluation

RF Exposure Compliance Requirement

Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$
$$\leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

Simultaneous transmission SAR test exclusion considerations

When an antenna qualifies for the standalone SAR test exclusion of 4.3.1 and also transmits simultaneously with other antennas, the standalone SAR value must be estimated according to the following to determine the simultaneous transmission SAR test exclusion criteria:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \text{ W/kg, for test separation distances } \leq 50 \text{ mm;}$$

where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distance is > 50 mm.

The $[\sum \text{ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg}] + [\sum \text{ of MPE ratios}] \leq 1.0$.

EUT RF Exposure

1) For BT(L)

Measurement Data

Worst case: $\pi/4$ DQPSK				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-2.53	-2.5 $\pm$ 1	-1.5	0.708
Middle(2441MHz)	-2.03	-2 $\pm$ 1	-1	0.794
Highest(2480MHz)	-1.65	-1.5 $\pm$ 1	-0.5	0.891

Worst case: $\pi/4$ DQPSK			
Channel	Maximum tune-up Power (mW)	Calculated value	Exclusion threshold
Lowest (2402MHz)	0.708	0.219	3.0
Middle (2441MHz)	0.794	0.248	
Highest (2480MHz)	0.891	0.281	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.			

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20250300571E-01

2) For BT(R)

Measurement Data

Worst case: $\pi/4$ DQPSK				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.23	0.5 ± 1	1.5	1.413
Middle(2441MHz)	-0.92	-0.5 ± 1	0.5	1.122
Highest(2480MHz)	-1.83	-1.5 ± 1	0.5	1.122

Worst case: $\pi/4$ DQPSK			
Channel	Maximum tune-up Power (mW)	Calculated value	Exclusion threshold
Lowest (2402MHz)	1.413	0.438	3.0
Middle (2441MHz)	1.122	0.351	
Highest (2480MHz)	1.122	0.353	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.			

Remark: The Max Conducted Peak Output Power data refer to report No.: CQASZ20250300571E-02

Simultaneous TX:

Estimated SAR BT(L)+ Estimated SAR BT(R) ≤ 1

$$0.0375/1.6 + 0.0584/1.6 = 0.06 \leq 1$$

*** END OF REPORT ***