

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2503000272AT
Applicant: Comba Telecom Network Systems Limited
Address of Applicant: Flat/Rm 10, 3/F, Bio-Informatics Ctr, 2 Science Park West Avenue, HK Science Park, Pak Shek Kok, N.T. Hong Kong
Manufacturer: Comba Network Systems Company Limited
Address of Manufacturer: No. 10 Shenzhou Road, Guangzhou Science City, Guangzhou 510663, Guangdong, P.R. China
Product Name: Comflex NG
Model No.: Comflex NG MU
Trade Mark: Comba
Standard(s) : 47 CFR Part 2.1091
 47 CFR Part 1.1310, Part 1.1307
Date of Receipt: 2025-03-03
Date of Evaluation: 2025-06-09
Date of Issue: 2025-07-16

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.



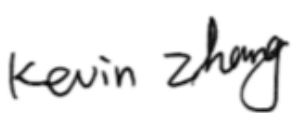

Jerry Chan
Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Revision Record			
Version	Report No.	Date	Remark
01	GZCR250300027211	2025-07-16	Original

Authorized for issue by:			
			
		Kevin Zhang/Project Engineer	
			
		Ricky Liu/Reviewer	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, Testing Center, EEC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn
t (86-20) 82155555 sgs.china@sgs.com

2 Evaluation Summary

Item	Standard	Requirement	Method	Result
RF Exposure	47 CFR Part 2.1091 47 CFR Part 1.1310 47 CFR Part 1.1307	47 CFR Part 1.1310	47 CFR Part 1.1310	PASS

Note:

E.U.T./ EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

3 Contents

	Page
1 Covers Page	1
2 Evaluation Summary	3
3 Contents	4
4 General Information	5
4.1 Details of E.U.T.	5
4.2 Evaluated Location	6
4.3 Test Facility	7
4.4 Deviation from Standards	7
4.5 Abnormalities from Standard Conditions	7
5 Radio Spectrum Technical Requirement	8
5.1 RF Exposure	8
5.1.1 Requirement	8
5.1.2 Method	9
5.1.3 Conclusion	9
5.2 EUT Constructional Details (EUT Photos)	13



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

4 General Information

4.1 Details of E.U.T.

Power Supply:	AC 100-240V, 50-60Hz	
Cable:	AC mains (4m, unshielded)	
Operating Temperature:	-20 to +55 °C	
Operating Humidity:	≤95%	
Frequency Range:	Lower 700MHz	Uplink: 698-716MHz Downlink: 728-746MHz
	Upper 700MHz	Uplink: 777-787MHz Downlink: 746-756MHz
	FirstNet	Uplink: 788-798MHz Downlink: 758-768MHz
	Cellular	Uplink: 824-849MHz Downlink: 869-894MHz
	Broadband PCS	Uplink: 1850-1915MHz Downlink: 1930-1995MHz
	AWS	Uplink: 1710-1780MHz Downlink: 2110-2180MHz
	BRS/EBS	Uplink: 2496-2690MHz Downlink: 2496-2690MHz
	3.45GHz Service band	Uplink: 3450-3550MHz Downlink: 3450-3550MHz
	3.7GHz Service band	Uplink: 3700-3980MHz Downlink: 3700-3980MHz
Support Technology:	LTE	
	5G NR	
Interface:	Antenna Port	5 (4.3-10 Female)*
	Optical Port	4 (SC-APC)
	OMT Port	1 (RJ-45)
	*	The other 4.3-10 Female ports belong to the POI card, which connects directly to a base station via coaxial cable but cannot connect to antenna and/or amplifier.
Antenna Type:	External Dedicated Antenna	
Permission Antenna Gain:	14dBi or less	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Normal Output Power: (per antenna port, uplink, BDA card)	Lower 700MHz	19dBm
	Upper 700MHz	19dBm
	FirstNet	19dBm
	Cellular	19dBm
	Broadband PCS	19dBm
	AWS	19dBm
	BRS/EBS	22dBm
	3.45GHz Service band	22dBm
	3.7GHz Service band	22dBm
Normal System Gain: (per antenna port, uplink, BDA card)	Lower 700MHz	80dB
	Upper 700MHz	80dB
	FirstNet	80dB
	Cellular	80dB
	Broadband PCS	80dB
	AWS	80dB
	BRS/EBS	80dB
	3.45GHz Service band	80dB
	3.7GHz Service band	80dB
Software Version:	ChassisOAMV0100.01	
Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		

4.2 Evaluated Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

4.3 Facility

The test facility is recognized, certified, or accredited by the following organizations:

● ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

● SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

● ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn
t (86-20) 82155555 sgs.china@sgs.com

5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 Requirement

In accordance with 47 CFR FCC Part 2.1091, this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

According to 47 CFR FCC Part 1310, the criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b).

TABLE 1 TO §1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

5.1.2 Method

According to IEEE C95.3:2002 section 5.5.1.1, the power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula:

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

S = power density (mW/cm²)

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)

From the maximum EUT RF output power, as well as the gain of the used antenna, according to the RF power density limit stated in above table, the minimum distance between the antenna and human body will be calculated.

5.1.3 Conclusion

For Lower 700MHz band (698-716MHz, uplink)

1. According to the test report GZCR250300027202, the tested maximum conducted power was within the tune up power range (19±2dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. The maximum tune up tolerance power is 21dBm= 125.9mW.
3. According to the declaration from the applicant, the permitted maximum antenna gain is 14dBi.
4. The limit of Power Density (S) (mW/cm²)= $f/1500 = 0.46 \text{ mW/cm}^2$ ($f=698\text{MHz}$ for worst-case).

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (mW)	Limit of Power Density (S_{limit1}) (mW/cm ²)	Power Density (S_1) (mW/cm ²)
25.119	125.9	0.46	251.8/d ²

For Upper 700MHz band (777-787MHz, uplink)

1. According to the test report GZCR250300027203, the tested maximum conducted power was within the tune up power range (19±2dBm) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. The maximum tune up tolerance power is 21dBm= 125.9mW.
3. According to the declaration from the applicant, the permitted maximum antenna gain is 14dBi.
4. The limit of Power Density (S) (mW/cm²)= $f/1500 = 0.51 \text{ mW/cm}^2$ ($f=777\text{MHz}$ for worst-case).

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (mW)	Limit of Power Density (S_{limit2}) (mW/cm ²)	Power Density (S_2) (mW/cm ²)
25.119	125.9	0.51	251.8/d ²



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, EMC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

For FirstNet Band (788-798MHz, uplink)

1. According to the the test report GZCR250300027204, the tested maximum conducted power was within the tune up power range ($19\pm 2\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. The maximum tune up tolerance power is $21\text{dBm} = 125.9\text{mW}$.
3. According to the declaration from the applicant, the permitted maximum antenna gain is 14dBi .
4. The limit of Power Density (S) (mW/cm^2) = $f/1500 = 0.52\text{mW}/\text{cm}^2$ ($f=788\text{MHz}$ for worst-case).

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (mW)	Limit of Power Density ($S_{\text{limit}3}$) (mW/cm^2)	Power Density (S_3) (mW/cm^2)
25.119	125.9	0.52	$251.8/d^2$

For Cellular Band (824-849MHz, uplink)

1. According to the the test report GZCR250300027205, the tested maximum conducted power was within the tune up power range ($19\pm 2\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. The maximum tune up tolerance power is $21\text{dBm} = 125.9\text{mW}$.
3. According to the declaration from the applicant, the permitted maximum antenna gain is 14dBi .
4. The limit of Power Density (S) (mW/cm^2) = $f/1500 = 0.54\text{mW}/\text{cm}^2$ ($f=824\text{MHz}$ for worst-case).

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (mW)	Limit of Power Density ($S_{\text{limit}4}$) (mW/cm^2)	Power Density (S_4) (mW/cm^2)
25.119	125.9	0.54	$251.8/d^2$

For Broad PCS Band (1850-1915MHz, uplink)

1. According to the the test report GZCR250300027206, the tested maximum conducted power was within the tune up power range ($19\pm 2\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. The maximum tune up tolerance power is $21\text{dBm} = 125.9\text{mW}$.
3. According to the declaration from the applicant, the permitted maximum antenna gain is 14dBi .

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (mW)	Limit of Power Density ($S_{\text{limit}5}$) (mW/cm^2)	Power Density (S_5) (mW/cm^2)
25.119	125.9	1	$251.8/d^2$



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

For AWS Band (1710-1780MHz, uplink)

1. According to the the test report GZCR250300027207, the tested maximum conducted power was within the tune up power range ($19\pm 2\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. The maximum tune up tolerance power is $21\text{dBm} = 125.9\text{mW}$.
3. According to the declaration from the applicant, the permitted maximum antenna gain is 14dBi .

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (mW)	Limit of Power Density (S_{limit6}) (mW/cm ²)	Power Density (S_6) (mW/cm ²)
25.119	125.9	1	$251.8/\text{d}^2$

For BRS/EBS Band (2496-2690MHz, uplink)

1. According to the the test report GZCR250300027208, the tested maximum conducted power was within the tune up power range ($22\pm 2\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. The maximum tune up tolerance power is $24\text{dBm} = 251.2\text{mW}$.
3. According to the declaration from the applicant, the permitted maximum antenna gain is 14dBi .

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (mW)	Limit of Power Density (S_{limit7}) (mW/cm ²)	Power Density (S_7) (mW/cm ²)
25.119	251.2	1	$502.4/\text{d}^2$

For 3.45GHz Service Band (3450-3550MHz, uplink)

1. According to the the test report GZCR250300027208, the tested maximum conducted power was within the tune up power range ($22\pm 2\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. The maximum tune up tolerance power is $24\text{dBm} = 251.2\text{mW}$.
3. According to the declaration from the applicant, the permitted maximum antenna gain is 14dBi .

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (mW)	Limit of Power Density (S_{limit8}) (mW/cm ²)	Power Density (S_8) (mW/cm ²)
25.119	251.2	1	$502.4/\text{d}^2$

For 3.7GHz Service Band (3700-3980MHz, uplink)

1. According to the the test report GZCR250300027208, the tested maximum conducted power was within the tune up power range ($22\pm 2\text{dBm}$) and the maximum tune up power was utilized as worst case for RF exposure evaluation.
2. The maximum tune up tolerance power is $24\text{dBm} = 251.2\text{mW}$.
3. According to the declaration from the applicant, the permitted maximum antenna gain is 14dBi .

Maximum Antenna Gain (Numeric)	Max. tune up tolerance power (mW)	Limit of Power Density (S_{limit9}) (mW/cm ²)	Power Density (S_9) (mW/cm ²)
25.119	251.2	1	$502.4/\text{d}^2$



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

For multiple simultaneous transmission sources, the calculated Power Density should comply with:

$$\begin{aligned} & (S_1/S_{limit1}) + (S_2/S_{limit2}) + (S_3/S_{limit3}) + (S_4/S_{limit4}) + (S_5/S_{limit5}) + (S_6/S_{limit6}) + (S_7/S_{limit7}) + (S_8/S_{limit8}) + \\ & (S_9/S_{limit9}) \leq 1 \\ & (574.4/d^2) + (493.8/d^2) + (484.3/d^2) + (466.3/d^2) + (251.8/d^2) + (251.8/d^2) + (502.4/d^2) + (502.4/d^2) + \\ & (502.4/d^2) \leq 1 \\ & d \geq 63.5 \end{aligned}$$

So the permitted use distance away from EUT external antenna is larger than 63.5cm.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, Testing Center, EEC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn
t (86-20) 82155555 sgs.china@sgs.com

5.2 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2503000272AT.

- End of the Report -



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, Testing Center, EEC Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com